2020 UCAT OFFICIAL GUIDE

University Clinical Aptitude Test for Medicine and Dentistry
Foreword

This is the official guide to the UCAT 2020 which contains definitive information regarding this year’s test and its content.

Sitting the UCAT is an important step in your application to medical or dental school. We recommend you start your preparation by reading this guide as it is intended to give you a complete overview of the steps involved in sitting the UCAT, including which universities require the test, key dates, how to register and book your test, what to expect on the day, and most importantly how to prepare for the test. You will find detailed descriptions of each of the subtests, an explanation of the different question types, strategies, tips and advice from previous candidates, and over 130 practice questions and answers. We believe that this guide, in conjunction with the free preparation materials and practice tests on our website ucat.ac.uk, are all you need to prepare successfully for the test.

We hope you find this information useful. If you have any feedback and suggestions for additional content please contact us.

Novel Coronavirus (Covid-19)

The UCAT Consortium, along with our partner Pearson VUE, are monitoring the current situation very closely as this will obviously impact our UCAT test cycle for 2020.

We will update candidates on all changes to the delivery of the test in 2020 on our website www.ucat.ac.uk and via our social media channels:

www.instagram.com/ucatofficial
www.twitter.com/UCATofficial
www.facebook.com/UCATofficial

The UCAT Consortium

The UCAT Consortium is the operating name of the UKCAT Consortium. The Consortium is a charity and company limited by guarantee. The members of the charity, who also nominate its board of directors, are the universities that have agreed to adopt the UCAT as part of their selection process for medicine and dentistry.

We are committed to achieving greater fairness in selection to medicine and dentistry and to the widening participation in medical and dental training of under-represented social groups.

The test is run by the Consortium in partnership with Pearson VUE, a global leader in computer-based testing and part of Pearson plc. It is delivered on computers worldwide through Pearson VUE’s high street centres.
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What is the UCAT?

The University Clinical Aptitude Test (UCAT) is an admissions test used by a consortium of UK Universities for their medical and dental degree programmes.

The test helps universities to make more informed choices from amongst the many highly-qualified applicants to these highly competitive degree programmes. It helps to ensure that candidates selected have the most appropriate mental abilities, attitudes and professional behaviour required for new doctors and dentists to be successful in their clinical careers.

The UCAT does not contain any curriculum or science content. It focuses on exploring the cognitive powers of candidates and other attributes considered to be valuable for health care professionals.
Key dates 2020
Although we expect testing to go ahead in 2020, you will appreciate that in the current climate we cannot predict when our test centres in the UK and internationally will be operating as normal. It is likely therefore that the timelines for testing will shift from those that usually apply. We expect registration and booking to open later than normal, and to start testing later than our usual July start.

Please see our website for up to date information regarding sitting the UCAT in 2020.

Who should take the test?
The UCAT is a compulsory entry requirement for our Consortium Universities. You are required to sit the test by the 2020 deadline if you are intending to apply for entry in 2021 (or deferred entry in 2022) to a relevant course listed overleaf. UCAT results cannot be carried over from one year to the next.

There are no general exemptions from the test. Candidates who believe they may be unable to sit the UCAT in 2020 should see the Mitigating Circumstances section of this guide.

You may only take the test once in any test cycle and any instances of multiple testing in the same year will be treated as an example of unprofessional behaviour.
Which Universities require the test?
The information below may be subject to change. You should always check the entry requirements for each course before booking a test. Some universities may have different requirements for overseas or graduate applicants. The UCAT website has the most up to date list.

<table>
<thead>
<tr>
<th>Code</th>
<th>University</th>
<th>Required Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>A20</td>
<td>University of Aberdeen</td>
<td>A100, A105, A201</td>
</tr>
<tr>
<td>A60</td>
<td>Anglia Ruskin University</td>
<td>A100</td>
</tr>
<tr>
<td>A80</td>
<td>Aston University</td>
<td>A100</td>
</tr>
<tr>
<td>B32</td>
<td>University of Birmingham</td>
<td>A100, A101, A200</td>
</tr>
<tr>
<td>B78</td>
<td>University of Bristol</td>
<td>A100, A108, A206, A208</td>
</tr>
<tr>
<td>C15</td>
<td>Cardiff University</td>
<td>A100*, A104, A200, A204</td>
</tr>
<tr>
<td>D65</td>
<td>University of Dundee</td>
<td>A100, A104, A200, A204</td>
</tr>
<tr>
<td>E14</td>
<td>University of East Anglia</td>
<td>A100, A104</td>
</tr>
<tr>
<td>E42</td>
<td>Edge Hill University</td>
<td>A100, A110</td>
</tr>
<tr>
<td>E56</td>
<td>University of Edinburgh</td>
<td>A100</td>
</tr>
<tr>
<td>E84</td>
<td>University of Exeter</td>
<td>A100*</td>
</tr>
<tr>
<td>G28</td>
<td>University of Glasgow</td>
<td>A100, A200</td>
</tr>
<tr>
<td>H75</td>
<td>Hull York Medical School</td>
<td>A100, A101</td>
</tr>
<tr>
<td>K12</td>
<td>Keele University</td>
<td>A100*, A104*</td>
</tr>
<tr>
<td>K31</td>
<td>Kent and Medway Medical School</td>
<td>A100</td>
</tr>
<tr>
<td>K60</td>
<td>King’s College London</td>
<td>A100, A101, A102, A202, A205, A206</td>
</tr>
<tr>
<td>L34</td>
<td>University of Leicester</td>
<td>A100, A199</td>
</tr>
<tr>
<td>L41</td>
<td>University of Liverpool</td>
<td>A100*, A200</td>
</tr>
<tr>
<td>M20</td>
<td>University of Manchester</td>
<td>A104, A106, A204, A206</td>
</tr>
<tr>
<td>N21</td>
<td>University of Newcastle</td>
<td>A100, A101, A206</td>
</tr>
<tr>
<td>N84</td>
<td>University of Nottingham</td>
<td>A100, A10L, A108, A18L</td>
</tr>
<tr>
<td>P60</td>
<td>Plymouth University</td>
<td>A100*, A206*</td>
</tr>
<tr>
<td>Q50</td>
<td>Queen Mary University of London</td>
<td>A100, A101, A110, A120, A200</td>
</tr>
<tr>
<td>Q75</td>
<td>Queen’s University Belfast</td>
<td>A100, A200*</td>
</tr>
<tr>
<td>S18</td>
<td>University of Sheffield</td>
<td>A100, A101, A200</td>
</tr>
<tr>
<td>S27</td>
<td>University of Southampton</td>
<td>A100, A101, A102</td>
</tr>
<tr>
<td>S36</td>
<td>University of St Andrews</td>
<td>A100, A990</td>
</tr>
<tr>
<td>S49</td>
<td>St George’s, University of London</td>
<td>A100</td>
</tr>
<tr>
<td>S84</td>
<td>University of Sunderland</td>
<td>A100</td>
</tr>
<tr>
<td>W20</td>
<td>University of Warwick</td>
<td>A101</td>
</tr>
</tbody>
</table>

* Alternative requirements may apply to certain groups of students - please see university website for more details.
Non-UK Universities

UCAT also meets the admission requirements of the following courses:

<table>
<thead>
<tr>
<th>University</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>American University of the Caribbean</td>
<td>Doctor of Medicine MD Program</td>
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<tr>
<td>Poznan University of Medical Sciences</td>
<td>Advanced MD Program in English for university graduates</td>
</tr>
<tr>
<td>UniCamillus - Saint Camillus International University of Health and Medical Sciences</td>
<td>Degree in Medicine and Surgery and a number of healthcare degree courses</td>
</tr>
<tr>
<td>St George’s University, Grenada</td>
<td>Doctor of Medicine (MD) Program</td>
</tr>
</tbody>
</table>

**Where can I take the test?**

The UCAT is a compulsory requirement for our Consortium Universities. It is delivered in Pearson VUE test centres in over 160 locations throughout the UK and internationally in around 130 countries. Consortium Universities expect overseas applicants to take the test which could mean travelling to another country.

You should use the Test Centre Locator on our website to find your nearest test centre.

We do not grant exemptions from the test. Candidates who believe they may be unable to sit the test in 2020 should contact their chosen Universities to see whether they would consider their application without a test result. Universities will require supporting evidence as part of that process. Each university will make its own decision consistent with its admission policy.
Registration and Booking

The UCAT can be taken between at any time during the 2020 test window. You must complete a two-step process using the Pearson VUE online registration system to register and then book a test.

Registration
You are strongly recommended to register and sit your test at your earliest convenience to ensure that places are available at your chosen test centre. Each year there are candidates who book a late test and then encounter problems when they fall ill or experience other issues which prevent them from taking that testing slot. This can be avoided by booking to take your test early.

You must create an online account with Pearson VUE before you can book your test (we call this first step registration).

You can register for your test at any point from when registration opens up until the published deadline by following the links on our website ucat.ac.uk/ucat/registration-booking/.

You need to register for your test personally – this cannot be done by your school or college.
**Booking**

Once you have registered you will be able to book your test. We recommend you book a test slot as soon as possible to maximise the chance of attending a convenient test centre.

You can make an online booking until the published online booking deadline. We would expect all candidates to have booked their test by this date.

You should book a standard test unless you are eligible for extra time in public exams. Please see the Access Arrangements section of this guide for more information. It is your responsibility to book the correct test.

After online booking closes you must phone Pearson VUE Customer Services to book a test. Although you can do this up to the final booking deadline, the availability of test slots will be extremely limited in the last few weeks of testing.

**Test Fees**

The following test fees apply in 2020:

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests taken in the EU between (dates to be confirmed)</td>
<td>£55</td>
</tr>
<tr>
<td>Tests taken in the EU between (dates to be confirmed)</td>
<td>£80</td>
</tr>
<tr>
<td>Tests taken outside the EU</td>
<td>£115</td>
</tr>
</tbody>
</table>

There is no difference in content between the UCAT sat during the earlier period. The increased price reflects demand on resources at particular times of the year. We recommend candidates sit the test during the earlier period and pay the lower test fee. Test fees depend on the test centre location, not on your place of residence or nationality.

The test fee is payable online at the time of booking.

Bursaries to cover the full test fee are offered to candidates who meet certain criteria, see the Bursaries section of the guide.
Bursaries

Bursaries to cover the full test fee are available to UCAT candidates from the UK or EU who meet the following criteria:

- In receipt of a **16 to 19 Bursary** or **Educational Maintenance Allowance (EMA)**

- In receipt of **Learner Support (FE 19+)** (or equivalent FE funding for Wales, Scotland, Northern Ireland)

- In receipt of **Free School Meals**

- In receipt of a **FULL rate Maintenance Grant** from Student Finance England / Wales / Northern Ireland (or full Young Students’ / Independent Students’ Bursary for Scotland). See website for further details of SFE criteria

- In receipt of **Income Support, Job Seeker’s Allowance or Employment and Support Allowance**

- In receipt of **Universal Credit**

- Live with a parent/guardian in receipt of **Income Support, Income-based Jobseeker’s Allowance or Income-based Employment and Support Allowance**

- Live with a parent/guardian in receipt of **Universal Credit** if the household income as stated on the award is less than £35k.

- Live with a family member in receipt of **Child Tax Credit** where the candidate is named on the award and the household income used to calculate the award is less than £35k.

- In receipt of or living with a parent/guardian in receipt of an equivalent **means tested benefit** in another EU state.

- In receipt of or living with a parent/guardian in receipt of **Asylum Support**

Applications must be made online and accompanied by the correct supporting evidence by the advertised bursary deadline.

Further information regarding applying for a bursary can be found here [ucat.ac.uk/ucat/bursary-scheme](ucat.ac.uk/ucat/bursary-scheme)

Rescheduling and Cancelling

You may reschedule your test online through your Pearson VUE account until the advertised online booking deadline. After this time you must phone Pearson VUE Customer Services to reschedule your test.

Rescheduling must be done a full 24 hours before your test. If you miss this deadline you will need to pay a further fee for the rescheduled test. The availability of convenient dates and times will be extremely limited in the last two weeks of testing.

Cancellation can be done online through your Pearson VUE account until the advertised online booking deadline. After this time you must phone Pearson VUE Customer Services to cancel your test.

All cancellations must be done a full 24 hours before your test in order to receive a refund. You cannot cancel or reschedule a test by email.

If you miss your test for any reason and have not cancelled and rescheduled in time you will not be eligible for a refund. Please see the Rescheduling and CANCELLING page of the UCAT website for full details.
Mitigating Circumstances

Our admissions tests are a compulsory entry requirement for our Consortium universities. However, we understand that some candidates will experience mitigating circumstances that may affect their ability to take the test.

**Illness or Personal Circumstances**

The *UCAT Consortium Professional Examination Rules* state that candidates who present themselves to test are declaring themselves fit to sit the test.

If you are aware of anything that might affect your performance on the day, you should not sit the test – even if it is a difficult decision to make. This includes candidates who fall ill or experience issues on the day of their test.

If you are not fit to sit your test, you must reschedule your appointment to a later date, even if this means losing the test fee. If you plan to take the test in the final weeks of testing, you may encounter difficulties in rescheduling within the test window, and may have to travel much further to find an available test centre. This is why we advise all candidates to test early in the cycle. If you are not fit to sit your test but choose to do so against this advice, we will not consider such issues as mitigating circumstances.

We never make an adjustment to a candidate’s score to reflect temporary illness/injury or some other event outside of the candidate’s control at the time of the test.

If you are concerned that illness or personal circumstances means you are not ‘fit to sit’ the test during the 2020 test cycle please contact the UCAT Office for advice.
Access Arrangements

You may be entitled to access arrangements if you have:

• Cognition and Learning Needs e.g. General and/or Specific Learning Difficulties such as Dyslexia or Dyscalculia.
• Communication and Interaction Needs e.g. Autistic Spectrum Disorder (ASD).
• Sensory and Physical Needs e.g. a Hearing or Vision Impairment; Physical Disability.
• Social, Mental and Emotional Needs e.g. Attention Deficit Disorder (ADD); Attention Deficit Hyperactivity Disorder (ADHD); Mental Health Conditions.

Applications for Access Arrangements can be made from when the scheme opens until the 2020 Access Arrangements deadline, as advised on our website.

You are advised to apply at least 10 working days before your test and some Access Arrangements require approval before you can book a test. To make an application you must be registered and know your candidate ID (in the format UKCAT123456).

What access arrangements require approval?
You must apply for approval to sit one of the extended versions of the test or have these special arrangements in place:

Test Versions
• UCATSEN - 25% extra test time
• UCATSA - standard test time with 5 minute rest breaks before sections
• UCATSENSA - 25% extra test time with 5 minute rest breaks before sections
• UCATSEN50 - 50% extra test time

Special Arrangements
• Separate room* - evidence must specify you need to test in an individual room. Our test rooms accommodate around 15 candidates which we consider meeting the requirements for testing in smaller rooms.
• Access to medical items or medically necessary food/drink at your workstation* (e.g. for diabetes) not included on the comfort aid list (below). This arrangement requires a separate room, which is subject to test centre availability.

* subject to test centre availability
What access arrangements do not require approval?
The following accommodations must be arranged at least 5 working days in advance of your test by calling Pearson VUE Customer Services on +44 (0)161 855 7409. You do not need supporting evidence.

- Wheelchair access*
- Adjustable height desk*
- Changes to the test colour scheme and/or font size
- Coloured overlays (provided by candidate)

* subject to test centre availability

Comfort aids
Some medicines, medical devices, mobility devices and other items are considered Comfort Aids. They are allowed into the test room after visual inspection and do not require any arrangements. A full list is available on the Access Arrangements page of our website.

How do I apply for access arrangements?
You should apply by completing the Access Arrangements Application form on our website and submitting the correct supporting evidence. You are advised to apply at least 10 working days before you intend to test and will be notified of the outcome by email.

The UCATSEN may be booked in advance of your eligibility being approved but we strongly recommend you wait for confirmation before sitting your test. If you have not been granted approval to sit the UCATSEN by the deadline your chosen Universities will be told that we cannot confirm your entitlement to extra time in public examinations and they may not accept your result.

All other extended versions of the test can only be booked once approval has been granted.

If you leave it very late to apply, your options may be limited depending on test slot availability.

For further information on how to apply for access arrangements, including acceptable supporting evidence, please ensure you read this section of our website carefully: ucat.ac.uk/ucat/access-arrangements

What access arrangements cannot be provided?
Due to the nature of the UCAT exam and the test centre environment the following accommodations cannot be provided under any circumstances:

- A reader or computer reader
- A paper version of the test
- A scribe
- Unlimited, ‘on request’ or ‘stop the clock’ breaks

What if my access arrangements cannot be met?
If you do not think that your needs will be met by the access arrangements on offer, you should still register for the test and make an application for Access Arrangements (providing recent supporting evidence). We will then contact you to advise you on your options. The deadline for any requests is as advised on our website.
Test Format

Overview
The UCAT assesses a range of mental abilities identified by university Medical and Dental Schools as important. There is no curriculum content as the test examines innate skills. Each subtest is in a multiple-choice format and is separately timed.

For candidates sitting the UCAT in 2020, the test will consist of:

- **Verbal reasoning** - assesses the ability to critically evaluate information presented in a written form
- **Decision making** - assesses the ability to make sound decisions and judgements using complex information
- **Quantitative reasoning** - assesses the ability to critically evaluate information presented in a numerical form
- **Abstract reasoning** - assesses the use of convergent and divergent thinking to infer relationships from information
- **Situational judgement** - measures the capacity to understand real world situations and to identify critical factors and appropriate behaviour in dealing with them.

<table>
<thead>
<tr>
<th>UCAT - Standard Test (120 minutes)</th>
<th>UCATSEN - Extended Test (150 minutes)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section</strong></td>
<td><strong>Section</strong></td>
</tr>
<tr>
<td>Verbal Reasoning</td>
<td>Verbal Reasoning</td>
</tr>
<tr>
<td>22 minutes</td>
<td>27 minutes 30 seconds</td>
</tr>
<tr>
<td>44 questions</td>
<td>44 questions</td>
</tr>
<tr>
<td>Decision Making</td>
<td>Decision Making</td>
</tr>
<tr>
<td>32 minutes</td>
<td>40 minutes</td>
</tr>
<tr>
<td>29 questions</td>
<td>29 questions</td>
</tr>
<tr>
<td>Quantitative Reasoning</td>
<td>Quantitative Reasoning</td>
</tr>
<tr>
<td>25 minutes</td>
<td>31 minutes 15 seconds</td>
</tr>
<tr>
<td>36 questions</td>
<td>36 questions</td>
</tr>
<tr>
<td>Abstract Reasoning</td>
<td>Abstract Reasoning</td>
</tr>
<tr>
<td>14 minutes</td>
<td>17 minutes 30 seconds</td>
</tr>
<tr>
<td>55 questions</td>
<td>55 questions</td>
</tr>
<tr>
<td>Situational Judgement</td>
<td>Situational Judgement</td>
</tr>
<tr>
<td>27 minutes</td>
<td>33 minutes 45 seconds</td>
</tr>
<tr>
<td>69 questions</td>
<td>69 questions</td>
</tr>
</tbody>
</table>
Verbal Reasoning

The Verbal Reasoning subtest assesses your ability to read and think carefully about information presented in passages and to determine whether specific conclusions can be drawn from information presented. You are not expected to use prior knowledge to answer the questions.

<table>
<thead>
<tr>
<th>UCAT Time</th>
<th>Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 minutes (one minute for instruction and 21 minutes for questions)</td>
<td>44 questions associated with 11 reading passages</td>
</tr>
</tbody>
</table>

Why Verbal Reasoning?

Doctors and dentists need excellent verbal reasoning skills in many aspects of their work. An ability to understand complex information and communicate this clearly and simply to patients is essential. Medical practitioners must also be able to interpret findings from published materials and apply this to their own practice. It is essential they are able to critique such materials and draw their own conclusion as to the validity of any findings.

Verbal Reasoning Questions

You will be presented with eleven passages of text, each associated with four questions.

Some questions assess critical reasoning skills, requiring candidates to make inferences and draw conclusions from information. You will need to read the passage of text carefully. You will then be presented with a question or incomplete statement, with four response options.

You are required to pick the best or most suitable response. You will only be able to select one response.

For other test questions, your task is to read each passage of text carefully and then decide whether the statement provided follows logically from the information in the passage. In each case you can choose True, False or Can’t Tell.

Verbal Reasoning Strategies

• You are unlikely to be familiar with the content of the text shown to you. Do not draw on existing knowledge as this will not be relevant.

• Think about how you will plan your time in this section.

• Work on your speed reading skills during your preparation by reading articles in the newspapers and learning to extract the key facts quickly.

• Some candidates recommend reading the question first and then scanning for the correct answer, rather than reading the whole passage. Try to find the strategy that works best for you.

The best thing to prepare for Verbal Reasoning is to read a newspaper or even non-fiction books daily, examining the arguments, logical fallacies and techniques used. Join debate groups, and read around logical fallacies and formal logic as well. Learn to unpick arguments and read quickly. If you read for 15 minutes every day, you’ll gradually become better, and this section will seem very easy by the time you have to take the UCAT.”

Jonathan, 99th percentile
Decision Making

The Decision Making subtest assesses your ability to apply logic to reach a decision or conclusion, evaluate arguments and analyse statistical information.

### Decision Making Strategies

- **Timing is important in this subtest.** Flag questions you are unsure about so you can come back to them at the end.

- **It may help you to write out or draw** the information given in the question. Make sure you have your note board and pen to hand.

- **Some questions require you to ‘drag and drop’ the correct response.** Practice this functionality in the Tour Tutorial.

- **Brush up on your maths skills around probability and Venn diagrams.**

- **Some items ask you to weigh arguments for and against a particular solution to a problem.** You must suspend your own beliefs to reach the strongest conclusion.

- **There are a number of different question types;** if there are some you find more challenging, flag these for review and answer those you find easier first.

### Why Decision Making?

Doctors and dentists are often required to make decisions in situations that may be complex. This requires high-level problem solving skills and the ability to assess and manage risk and deal with uncertainty.

### Decision Making Questions

You will be presented with questions that may refer to text, charts, tables, graphs or diagrams. Additional information may be presented within the question itself.

All questions are standalone and do not share data. Some questions will have four answer options but only one correct answer; others will require you to respond to five statements by placing a ‘yes’ or ‘no’ answer next to each statement.

A simple on-screen calculator is available for use in this section. You may also need to use your note board and pen.

#### UCAT Time

<table>
<thead>
<tr>
<th>UCAT Time</th>
<th>Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>32 minutes</td>
<td>29 questions associated with diagrams, text, charts or graphs</td>
</tr>
<tr>
<td>(one minute for instruction and 31 minutes for questions)</td>
<td></td>
</tr>
</tbody>
</table>
Quantitative Reasoning

The Quantitative Reasoning subtest assesses your ability to use numerical skills to solve problems. It assumes familiarity with numbers to the standard of a good pass at GCSE. However, items are less to do with numerical facility and more to do with problem solving (i.e. knowing what information to use and how to manipulate it using simple calculations and ratios). The subtest measures reasoning using numbers as a vehicle rather than measuring a facility with numbers.

A simple on-screen calculator is available for use in this section. The calculator is integrated into the practice tests and we strongly recommend that you familiarise yourself with using it. You can also utilize your note board and pen.

Quantitative Reasoning Strategies

- Timing is very important in this section – pace yourself during the test. Check how you are doing halfway through and adjust your speed accordingly.
- Read the questions carefully – individual words and units may be crucial in answering the question correctly.
- In the first place try to understand the scenario presented – this will help you focus quickly on the questions.
- Use the laminated note board and pen provided to assist with your calculations.
- Review where there might be gaps in your maths. You may need to work out percentages, averages, ratios and fractions – remind yourself how to do some of these calculations if they are causing you problems.
- If you are finding a question difficult, eliminate the more obvious incorrect answers and make an educated guess.
- Practice your mental arithmetic to speed up your answering by reducing your reliance on the calculator.

Why Quantitative Reasoning?

Doctors and dentists are constantly required to review data and apply it to their own practice. On a practical level drug calculations based on patient weight, age and other factors have to be correct. At a more advanced level, medical and dental research requires an ability to interpret, critique and apply results presented in the form of complex statistics. Universities considering applicants need to know they have the aptitude to cope in these situations.

Quantitative Reasoning Questions

You are required to solve problems by extracting relevant information from tables and other numerical presentations. Most questions will be shown as a set of four questions each connected to the same data. There are some questions that standalone and do not share data. Each question has five options. Your task is to choose the best option.
Abstract Reasoning

Abstract Reasoning assesses your ability to identify patterns amongst abstract shapes where irrelevant and distracting material may lead to incorrect conclusions. The test therefore measures your ability to change track, critically evaluate and generate hypotheses and requires you to query judgements as you go along.

UCAT Time

<table>
<thead>
<tr>
<th>Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 minutes (one minute for instruction, 13 minutes for questions)</td>
</tr>
</tbody>
</table>

Why Abstract Reasoning?

When considering possible diagnoses, medical practitioners may be presented with a set of symptoms and/or results. Some information may be more reliable, more relevant and clearer than other information. Doctors and Dentists need to make judgements about such information, identifying the information which will help them reach conclusions. Carrying out research involving data often involves identifying patterns in results in order to generate further hypotheses.

Abstract Reasoning Questions

There are 4 different question types in the Abstract Reasoning subtest.

For type 1, you will be presented with two sets of shapes labelled “Set A” and “Set B”. You will be given a test shape and asked to decide whether the test shape belongs to Set A, Set B, or Neither.

For type 2, you will be presented with a series of shapes. You will be asked to select the next shape in the series.

For type 3, you will be presented with a statement, involving a group of shapes. You will be asked to determine which shape completes the statement.

For type 4, you will be presented with two sets of shapes labelled “Set A” and “Set B”. You will be asked to select which of the four response options belongs to Set A or Set B.

Abstract Reasoning Strategies

• Timing is again very challenging in this section.

• Remember to leave time to review set A and set B at the beginning of each set of questions. Once you have identified what links each set you are half way there.

• Consider patterns around size and shape of objects; number of objects; sides of objects; shading and colour; symmetry, number of angles, position and direction... this sounds complicated but as you look at these shapes you will start to grasp what you need to focus on.

• What links shapes in set A and those in set B will often be linked in some way – remembering this may help you ignore distracting information.

• If you can’t see the pattern, don’t waste time; flag this set of questions and move on to the next set of shapes. You can revisit it if you have time at the end.
Situational Judgement

The test measures your capacity to understand real world situations and to identify critical factors and appropriate behaviour in dealing with them.

<table>
<thead>
<tr>
<th>UCAT Time</th>
<th>Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>27 minutes (one minute for instruction and 26 minutes for questions)</td>
<td>69 questions associated with 22 scenarios (each scenario may have up to 5 questions)</td>
</tr>
</tbody>
</table>

Why Situational Judgement?
The test assesses integrity, perspective taking, team involvement, resilience and adaptability. SJTs are used widely in medical and dental selection, including selection of Foundation Doctors and Dentists, GPs and other medical specialities.

Situational Judgement Questions
The test consists of a series of scenarios for which you will need to consider either the appropriateness of possible actions, or the importance of possible considerations. You do not require medical or procedural knowledge to answer.

Some of the questions require you to rate each response from four possible options. Other questions require you to choose the most and least appropriate action to take from the three options provided.

When considering how to respond to the importance of certain options, an option is:

- Very important if this is something that is vital to take into account
- Important if this is something that is important but not vital to take into account
- Of minor importance if this is something that could be taken into account, but it does not matter if it is considered or not
- Not important at all if this is something that should definitely not be taken into account

When considering how to respond to the appropriateness of certain options, an option is:

- A very appropriate thing to do if it will address at least one aspect (not necessarily all aspects) of the situation
- Appropriate, but not ideal if it could be done, but is not necessarily a very good thing to do
- Inappropriate, but not awful if it should not really be done, but would not be terrible
- A very inappropriate thing to do if it should definitely not be done and would make the situation worse

For SJT look at lots of past questions, and read through the explanations or model answers that are given as feedback. A general summary of any appropriate answer would be that the idea proposed is a local, direct solution to the problem, that doesn’t reflect badly upon the profession and always puts the patient first.”

Emma, 99th percentile
Situational Judgement Strategies

- Read each scenario and response thoroughly before answering.

- Remember, there are different styles of questions in this subtest; read the instructions carefully to make sure you understand what you have to do.

- Within a scenario, each rating can be used more than once or not at all. For example, all response options can be given the same rating of very appropriate.

- Responses should relate to what an individual should do, rather than what they may be likely to do.

- Response options should be treated independently. You should make a judgement as to the appropriateness or importance of a response option independent from the other options presented within the scenario.

- Response options provided are not intended to represent all possible options. The response you think would be the most appropriate/most important may not be present.

- Some options may be appropriate/important in the short term (i.e. immediately addressing a wrong doing) and some are appropriate/important in the long term (discussing the implications of the wrong doing after the event). Consider response options irrelevant of the timeframe. A response option may still be an appropriate thing to do even if it is not something that can be done immediately.

- When deciding which is the most/least appropriate action, all of the possible options may be good actions to take, the question is asking you to prioritise the actions.

If you are struggling with this subtest, try reading the GMC guidance on ‘Good Medical Practice’ (this document is available online) as part of your preparation. Previous high-scoring candidates said they found it helpful to apply the general principles contained in these documents to the scenarios in the questions.
Marking and scores

Verbal Reasoning, Decision Making, Quantitative Reasoning and Abstract Reasoning are marked on the number of correct answers you give.

Questions with one correct answer are worth 1 mark. Questions with multiple answers (such as those in Decision Making) are worth 2 marks, with 1 mark awarded to partially correct responses.

As the number of questions in these four subtests varies it is not possible to make a direct comparison of the raw scores between the cognitive subtests. Raw scores are therefore converted to scale scores that share a common range from 300 to 900.

- A total scale score is generated by summing the individual scale scores of the four cognitive subtests.
- A total scale score ranges from 1200 to 3600.

Within the Situational Judgement test full marks are awarded for an item if the response matches the correct answer and partial marks awarded if the response is close to the correct answer.

Raw scores for the Situational Judgement subtest are expressed in one of four bands, with band 1 being the highest. Alongside their band, candidates will be given an interpretation of this performance:

| Band 1 | Demonstrates an excellent level of performance, showing similar judgement in most cases to the panel of experts. |
| Band 2 | Demonstrates a good, solid level of performance, showing appropriate judgement frequently, with many responses matching model answers. |
| Band 3 | Demonstrates a modest level of performance, with appropriate judgement shown for some questions and substantial differences from ideal responses for others. |
| Band 4 | Performance was low, with judgement tending to differ substantially from ideal responses in many cases. |

As the SJT is a measure of non-cognitive attributes, it will be considered by universities in a different manner to the cognitive subtests. Please refer to their websites for more details.

There is no negative marking for incorrect answers in any of the subtests, and performance on one item does not influence which other items are presented.

You’ll probably get tired of hearing this, but reflection is incredibly important. After each practice session, reflect on what the questions you answered were asking for and ask yourself is there a quicker or easier way to do this? Is there a reason why the answer couldn’t possibly be any of the other options?

In doing this, you become a lot better at ruling out answers so even if you feel pushed for time you can make a very good guess.”

Olukayode, 99th percentile
Using My Results

When do I Receive My Result?
When you leave the test centre you will be given a copy of your test result in the form of a score report. This test result is valid for the current UCAS Admissions cycle (for entry into medical or dental school in 2021 or deferred entry to 2022).

Your score report will also be accessible online through your Pearson VUE account within 24 hours of your test.

How Do I Use My UCAT Result?
You will have your test result before the UCAS deadline so please ensure you use this to help inform your UCAS choices, otherwise you might be wasting an application. Our universities provide information on their websites regarding how they use the test in admissions.

Some Universities may provide indicative scores, based on previous years’ experience to guide candidates in relation to their admission requirements. Universities will indicate on their websites if this is the case.

For some the UCAT score is a significant factor in their consideration of your application. For others it may be a less significant factor or only used in marginal situations. Most Universities consider the total score (i.e. the score after each of the cognitive subtest scores have been added together). Some however do look at individual subtest scores and may even have a cut-off score for a particular subtest.

Some Universities have a threshold score that candidates have to achieve in order to be considered further in their admission processes.

This score is often determined each year but Universities will usually indicate on their website, threshold scores that have been used in previous years.

Other Universities use the UCAT alongside factors such as academic achievement, personal statement and interview performance. The factor may be significant or may contribute a small amount to the final outcome.

Some universities use the score (sometimes in addition to the above uses) to discriminate between candidates who are ranked equally at some point in the process. The UCAT score provides an additional way of ranking such candidates in order to decide who can proceed to the next stage.

A small number of Universities use the test to provide opportunities to candidates who perhaps would not have progressed to interview (for example) using traditional selection methods. This may advantage candidates who have not have achieved the highest academic score but have performed particularly well in the UCAT.

Test Statistics
In order to help you understand how well you have performed compared to other candidates we will publish interim scores mid way through the test cycle, and final test statistics a few days after 2020 testing ends, on the Test Statistics page of our website: ucat.ac.uk/ucat/results/test-statistics/

Delivering Results
After the UCAS application deadline has passed (15 October 2020 - or as advised by UCAS), we then work with UCAS to obtain details of the UCAT Consortium universities you have applied to. You do not need to tell us your application choices or UCAS PID or pass your test result to your universities yourself.

We then communicate your test result directly to your chosen universities at a date to be confirmed.
Practising for the Test

The UCAT is an important test. Although it is a test of aptitude rather than academic knowledge, you should still allow time to prepare thoroughly.

You should practise for the test using the FREE and OFFICIAL resources available on the Preparation Advice and Practice Tests page of the UCAT website. These have been developed by the UCAT Consortium and provide comprehensive information on the test and materials to support your preparation, including extensive question banks and a number of timed practice tests. ucat.ac.uk/ucat/practice-tests

We would recommend you spend around 25-30 hours preparing for the UCAT. This is the amount of preparation done by the highest scoring respondents to our most recent candidate survey. It’s best to start at least 4-6 weeks before your test date and do ‘little and often’ each day, building up your practice gradually as you near your test date.
How should I prepare?

We advise you to prepare for the test using the free official practice materials which have been developed by the UCAT Consortium. The resources and advice below are all available on our website and have been produced by ourselves using feedback from previous high-scoring candidates.

- Use this **Official Guide** as the majority of candidates we talk to indicate that reading this increased their knowledge of both the test content and also how to prepare effectively for the test.

- Use the **Tour Tutorial** to familiarise yourself with the onscreen test format, learn how to move around the screen and through the test, how to flag and review questions, and to use the on-screen calculator provided.

- Use the interactive **Question Tutorial** to find out about the different question types you will see and learn useful strategies for approaching and answering questions in each of the subtests.

- **Did you know that we provide over 1,000 FREE practice questions on our website?** Once you understand the different sections of the test, begin using our useful online **Question Banks** which contain hundreds of example questions which you can you to familiarise yourself with the format and style of questions for each subtest.

- You can watch a number of videos to support your preparation by finding **OfficialUCAT** on [Vimeo](https://vimeo.com) and [Youtube](https://youtube.com). High-scoring candidates share advice on their revision tips and overall test experience, plus a selection of Admissions Tutors from our UK Consortium Universities share their thoughts on the use of the test and what they look for in an applicant. There’s also a useful **UCAT Preparation Plan** which helps guide you through the official preparation materials.

- The **Official UCAT Practice App** is a free preparation resource which allows you to familiarise yourself with the question styles in each subtest. It is a complementary resource in addition to the online practice tests, to boost your preparation. Download this from the App Store or Google Play Store.

- **An essential part of your preparation should be to use the official UCAT Practice Tests.** We provide **four fully timed tests which mimic the live testing experience**. Questions are of an equivalent standard to those you will encounter in the test and you can review your responses against answer rationales. The practice tests are also vital in helping you to understand the time limitations in each section and to develop strategies to approach each subtest with this in mind.
Test Strategies and Advice

We regularly interview our highest-scoring candidates for their advice on how they prepared for the test. Some of this feedback, along with our own advice, is below:

• Candidates who take our test early do better - FACT! Doing this will allow you to concentrate on other things (such as your UCAS application!). If you book early you will have your choice of test slots and if you then feel unwell or unprepared you can reschedule. This might not be easy in the final weeks of testing.

• Seek help and advice from your school/college or via online student forums from previous test takers. The Candidate Advice page of our website is also a great source of information.

• If you have not studied mathematics beyond GCSE level (or recently), make additional time to revisit and practice your mathematical skills as this will impact on performance in the Quantitative Reasoning section in particular.

• Once you’ve worked out the subtests you are better at, focus your preparation on those with which you are less confident, using the answer rationales to see where you may be going wrong.

• If you are not well, reschedule your test to a later date – even if you lose your test fee. In presenting yourself for testing, you are declaring yourself fit. We will not consider health issues as mitigating circumstances.

• Good multiple-choice questions include answer options that are wrong but almost right. Work hard to find and eliminate them. Questions like these are not tricks. Accept that one (and only one) of the answers is correct. All the questions have been thoroughly checked.

• Many candidates do not complete all questions in the test. Use the official timed practice tests as you get nearer to your test date to ensure you are managing your time effectively.
• Try not to leave unanswered questions. If you are finding a question difficult, eliminate the more obvious incorrect answers, then make your best guess from those that are left.

• No points are deducted for wrong answers – we do not use negative marking. If you are struggling with a question, make your best guess and move on. You can flag it for review if you want to come back to it later.

• Using the Flag and Review functions effectively featured strongly in advice from last year’s highest scorers when questioned on how they managed the time constraints within the test.

• Finally, stay calm during the test. Pace yourself and move on if you’re struggling. It is inevitable you will find some questions and sections easier than others.

Calculator
A simple on-screen calculator is available for the Decision Making and Quantitative Reasoning subtests. To access this click on the icon in the top left hand side of your screen.

The calculator will look similar to this:

```
The mock tests on the UCAT website are the most valuable resource you have; don’t waste them by attempting them before you’ve done any preparation. Find a bank of questions and get practice on each type before trying a mock test.”

Adam, 99th percentile
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The calculator has been included within the timed practice tests. We strongly advise you to use the calculator when taking the practice tests in order to familiarise yourself with the functionality.

In the live test the calculator closes when clicking away or moving to another question. It can be recalled by clicking on the icon; your current calculations should be retained.

You can use the mouse or the number pad on your keyboard to operate the calculator. Make sure the ‘Num Lock’ is on for the number pad to work. Due to limitations with the web browser format the practice test calculator does not retain calculations when you click away or move to another question.

If you need help with the calculator during the test please raise your hand.
Keyboard Shortcuts
Keyboard shortcuts can be used to navigate through the test if you find this preferable to using the mouse.

Wherever there is a letter underlined, the Alt key can be used with the underlined letter as a keyboard short cut, e.g. Alt + N = Next (as displayed below) and Alt + P = Previous.

The shortcuts available at any time during the test depend on which screen is currently being viewed.

Keyboard shortcuts cannot be used to select answers to questions; this has to be done by using the mouse to select the desired response, and in some cases to drag and drop an answer.

Note board and Pen
You will be given a marker pen and a set of noteboards to make notes during your test. If another noteboard is required, you should raise your hand and request one from the invigilator.

The invigilator will have checked the pen is working before giving it out. You may wish to check this before you start to avoid the need to seek assistance during testing. If you are not given noteboards and a pen when you enter the test room, you should request them by raising your hand. Not requesting these items will not be considered a mitigating circumstance.

I found the UCAT website incredibly useful. I felt the practice tests on there were the most realistic resources I used and by completing these tests throughout my preparation it allowed me to monitor my progress and help improve my scores each time.

Also, I downloaded the UCAT app onto my phone so I could do a couple of questions if I had time when out and about.

Rachael, 99th percentile
**What about commercial companies?**

Whilst there are many commercial companies publishing books and offering coaching for our test, the UCAT Consortium does not work with any of these companies or endorse the use of their materials. Taking advantage of these opportunities can cost candidates a great deal of money and we would advise you to be sceptical about claims they can help you do well in the test by coaching.

Commercial organisations will be using questions that are not necessarily of the standard you will encounter in the UCAT and this may distort your performance whilst practising. Screen views may be different and commercial organisations are unlikely to include the new question types which you may encounter in your test. More significantly, they may also not replicate the UCAT scoring accurately and may give misleading indicators of your anticipated UCAT score.

We therefore strongly advise candidates to use the official Practices Tests and Question Banks on our website, and to be cautious about using resources from any commercial providers as these are not affiliated with UCAT in any way.

**Adviser Resources**

Schools and colleges can access useful resources to help them advise their students about the sitting the UCAT from the Preparation Advice and Practice Tests page of our website.

In addition to our UCAT 2020 leaflet and an online version of this guide, there is also a UCAT Overview presentation for use by Teachers and Careers Advisers.

舌ucat.ac.uk/ucat/practice-tests/
Test Day

You may be nervous, but being organised in advance can save any unnecessary stress on your test day. Please read this section carefully, particularly the information regarding the correct ID you need to sit your test, to avoid any surprises on your arrival at the Test Centre.

Arrival
Before you set off for your test, make a note of the Test Centre’s address and phone number and find it on a map. Ensure you know how long it will take you to get there via public transport, or if relevant make sure you have planned where to park to avoid being late.

You must arrive at the Test Centre at least 15 minutes before your scheduled appointment time to complete the check-in process. If you arrive late, you may not be allowed to take the test and you will have to book and pay for a new test slot on another day. This applies in cases of family emergency, accident, arrest, transport problems and security alert as well as forgetfulness and lateness.

Identification and Documentation
You must bring BOTH of the following documents with you:
- a printout or electronic copy of your appointment confirmation email from Pearson VUE
- one piece of official photographic identification from our approved list which meets the requirements of the country where you are testing. See overleaf.

The name and date of birth on your ID must exactly match the name and date of birth you provided when you registered.
**Passport** - an original valid and signed passport that contains a recognisable photo will be accepted at ANY test centre.

Additional rules:
- When presenting a child passport the photograph must be recent enough that you are easily identified from it.
- If the passport does not have a visible signature it will ONLY be accepted if presented together with a valid bank card (with matching name and visible signature). This also applies in the case of child passports signed by a parent.

**Photo-card Driver’s Licence** - a government-issued original, valid licence that contains a recognisable photo will ONLY be accepted at test centres in the country of issue.

Additional rules:
- You may present a full or provisional licence.
- Regional differences are acceptable.
- If the licence does not include your visible signature, it will ONLY be accepted if presented together with a valid bank card (with matching name and visible signature).

**EU Identity Card or Irish Passport Card** - a government-issued original, valid and signed EU Identity Card or Irish Passport Card that contains a recognisable photo will ONLY be accepted at a test centre in the EU.

Additional rules:
- The information on the card must be presented in Roman script as well as the original character set. For example a Greek identity card will have Greek and Roman characters to be permitted.
- If the card does not include your visible signature, it will ONLY be accepted if presented together with a valid bank card (with matching name and visible signature).

If you do not bring acceptable photographic identification you will not be allowed to sit the test and will forfeit your test fee.

Full details regarding acceptable photographic identification and advice on what to do if your ID does not meet these requirements, can be found on our website ucat.ac.uk/ucat/test-day/

**Check-in Process**
During the check-in process:
- your official ID will be checked and staff will take a digital photograph of you.
- you will be asked to read the UCAT Consortium Professional Examination Rules and sign to confirm you understand them.
- all personal belongings (including bags, coats, hats or head coverings, papers, books, pens, watches, wallets, keys, IDs, mobile phones, food/water/drinks) must be placed in the lockers provided before you enter the test room.
- staff will conduct a routine visual inspection of your clothing, hands/arms and any comfort aids. This is to ensure that you do not take any non-permitted items into the test room.

Please see the Test day page on our website for further clarification.

**Test Experience**
You will be allocated a desk space in the testing room at which you will find your PC, keyboard and space for your note board and pen. There will be other people taking tests in the same room as you and as tests start and finish at different times, there may be some limited disturbance as other test takers arrive and leave the room. The test centre will endeavour for such disturbance to be kept to a minimum. **You can request ear plugs or headphones if you think this will be disturbing.**

Please note that once started the test cannot be paused. If you need a break to take medication or use the toilets, please raise your hand to notify the invigilator who will assist you in leaving the test room. However the test will continue running and you will lose test time whilst you are out of the test room. You are advised to take any breaks between subtests to limit the impact on test time.
Problems

If you feel ill during your test, raise your hand to notify the invigilator. If you are not well enough to continue, you should ask the invigilator to end your test. You then need to contact the UCAT Office as soon as possible. If you choose to continue testing, it is unlikely that UCAT will consider this as mitigating circumstances without medical evidence.

If you experience hardware/software problems, noise disturbance or other distractions, notify the invigilator immediately by raising your hand. If you do not report the problem, it will not be considered as mitigating circumstances by UCAT. The invigilator cannot answer questions related to test content.

In the event of a reported incident or if a general incident affects a test, you will be given an incident number by the test centre.

Please make sure you obtain an incident number before leaving the test centre.

The issuing of an incident number does not automatically result in a detailed follow up unless it is specifically requested. We rarely investigate incidents that are not reported to test centre staff on the day of testing.

If you wish an incident to be followed up you must contact Pearson VUE Customer Services, usually within 1 working day of your test.

Once an incident has been logged, it will be investigated by Pearson VUE and the outcome of this investigation will be reported back to you by email within 5 working days.

If you are unhappy with the outcome of the investigation by Pearson VUE, we have put in place a Complaints and Appeals Procedure which can be found on our website. Please note that we do not deal with complaints about admissions decisions, which should be addressed to the individual university concerned.

Unprofessional behaviour

We expect candidates to meet minimum standards of acceptable behaviour during testing and during any interactions with the UCAT Consortium and Pearson VUE staff. Please familiarise yourself with the Professional Examination Rules before your test.

Where candidates fall short of these minimum standards, such incidents will be thoroughly investigated. Where such allegations of misconduct are upheld, we reserve the right to take actions which may include:

• withdrawal of all test results
• disqualification from sitting the test for a period in the future
• the sharing of the outcomes of the investigation with legitimate third parties (which may include UCAS and Consortium Universities).

Examples of misconduct include:

• Testing more than once in any test cycle
• sitting both the UCAT and UCAT ANZ in the same year
• breach of security arrangements
• impersonation
• failure to follow invigilator or other staff instructions
• creating a disturbance
• using prohibited aids (e.g. notes, note paper, calculators, mobile phone, audio/recording device etc.)
• copying another candidate’s work
• using the test questions, their content or information about them for purposes other than sitting the UCAT
• giving of false or misleading information during the registration, booking and payment processes
• giving false or misleading information during the complaints and appeals processes
• giving of false or misleading information relating to test results during admissions processes.

TEST DAY
The following are a selection of questions reproduced from our free Official UCAT Practice App available from the App Store and Google Play.

The App is a great way to practise on the go when you have a few minutes to spare, and can be used in addition to the online preparation materials on the UCAT website, which mimic the live test experience more accurately.

In addition to these questions, you can also find four fully timed practice tests and hundreds of further practice questions on the UCAT website: ucat.ac.uk/ucat/practice-tests.
VR1 – The Teleological Argument

Since the Greeks, the teleological argument has been commonly used to prove the existence of a Creator or Supreme Being. It was famously expressed by William Paley in 1802, who imagined finding a pocket watch on a heath. If you had never seen a watch before, you might marvel at its mechanism and rightly assume that someone with great skill had made it. He pointed to the intricate structure of living things and argued that they were so cleverly put together that some unknown designer must have made them. He went on from there to say that because organs and organisms in nature seemed to have a purpose – bees pollinate flowers, the intricate structure of the eye enables us to see – that a hidden planner is at work. The Universe operates to known rules – Newton’s Laws of Motion for example – which is a further argument for a planned and purposeful world.

This argument became seriously challenged fifty years later, when Charles Darwin published his theory of natural selection as an explanation for the variety and complexity of living organisms. This did not presuppose a hidden designer. More than a hundred and fifty years later, the evolutionist Richard Dawkins published a book explaining evolution by natural selection entitled ‘The Blind Watchmaker’.

VR1-1  Dawkins’ title of his book, ‘The Blind Watchmaker’, is appropriate because:
- A no watchmaker is blind.
- B the structure of living things cannot be explained.
- C a Supreme Being must be blind.
- D natural selection does not depend on an intelligent designer.

VR1-2  From the passage, teleology can be defined as:
- A arguing that all events have a purpose.
- B using Natural Selection to explain a watch’s mechanism.
- C arguing that everything happens by chance.
- D using Newton’s Laws to predict the future of the Universe.

VR1-3  Which of these assertions is best supported by information contained in the passage?
- A Natural selection depends on a hidden designer.
- B Natural selection depends on chance events.
- C The operation of the Universe does not depend on hidden rules.
- D The Universe has been carefully planned.
**Verbal Reasoning**

**VR1-4** Using the information in the passage, a belief in the existence of a Supreme Being is:
- **A** justified because humans have a purpose.
- **B** not justified because of evolution.
- **C** not possible to justify using scientific theories.
- **D** possible to contradict using scientific theories.

**VR1-5** William Paley used the construction of a watch in an argument from:
- **A** analogy
- **B** deduction
- **C** comparison
- **D** authority

**VR1-6** The structure of the human eye is similar to a camera. From the passage we can conclude that the human eye:
- **A** must take pictures like a camera.
- **B** may take pictures like a camera.
- **C** was designed like a camera.
- **D** did not evolve like a camera.

**VR2 – The 1737 Licensing Act**

London’s West End is famous for its theatres but this was not always so. Between 1642 and 1660 all theatrical performances were banned as immoral, corrupt and subversive. In 1660 drama was legalised once more but in all England only two London theatres and acting companies were permitted. Royal sponsorship resulted in strict control of content and performance while critical comment was forbidden. Theatre catered for upper class audiences.

In the 1690s commercial interests replaced royal patronage and government control decreased. Owners, seeking increased profits wanted more socially diverse audiences. Many dramatists, leading up to the late 1730s criticised the government and royal family. As performances became increasingly critical and outspoken the government established tighter control and imposed censorship. The 1737 Licensing Act was passed following the reading in parliament of a scurrilous play, *The Golden Rump*, which offensively mocked King George’s personal habits.

The Lord Chamberlain’s office, which censored all plays two weeks before performance, only licensed them if everything objectionable was deleted. Heavy fines and imprisonment were used to punish authors and actors who broke this law. Many authors resented this restriction on their freedom to criticise politicians.
After 1788 magistrates could authorise local theatres. Many new provincial theatres were built but London theatres were still restricted to two. Country gentry could now enjoy culture not available to many Londoners. Censorship meant fewer plays were written so critics of government found new satirical mechanisms and London theatre managers developed new entertainment forms to attract audiences. Censorship finally ended in 1968.

VR2-1 Which of these statements is best supported by the passage?
- A. The two London theatres allowed by the Licensing Act were both in the West End.
- B. The king of England who ascended the throne in 1660 was a supporter of theatre.
- C. The Lord Chamberlain was appointed because he was an expert in the writing of plays.
- D. The terms of the Licensing Act remained in force unaltered until the twentieth century.

VR2-2 Based on the passage, each of these statements is true EXCEPT:
- A. Plays were often used as a way of criticising government actions.
- B. The reigning king in 1737 was not popular with all of his subjects.
- C. The Licensing Act reduced the number of theatres allowed in London.
- D. Legal censorship of plays in England lasted for over two hundred years.

VR2-3 It was easier for people in the North of England to see plays in the 1790s compared to the 1660s because:
- A. better transport made it easier for them to get to London theatres.
- B. censorship had been relaxed so that more plays were being written.
- C. authors who criticised the government were no longer allowed to write plays.
- D. it was legally possible to open theatres outside London for the first time.

VR2-4 Using information contained in the passage it can be inferred that:
- A. criticism of the government in the 1730s was considered to be more of a problem than it was in the 1660s.
- B. the main reason the king sponsored theatres after 1660 was because he wanted to make a financial profit.
- C. the Lord Chamberlain’s office was set up by theatre managers who wished to control the work of playwrights.
- D. many authors enjoyed the freedom the Licensing Act gave them to write plays which were critical of politics.
VR2-5 Which of these statements best supports the claim that as far as drama was concerned 'country gentry could now enjoy culture not available to many Londoners'?

- A. Before 1788 theatres were only legally allowed in London.
- B. After 1788 new theatres were opened in several provincial towns.
- C. Theatre managers in London experimented with new types of amusement.
- D. In the 1690s royal sponsorship of theatres was replaced by commercial interests.

VR2-6 In the eighteenth century the main target audience for theatre managers was:

- A. the upper classes.
- B. country gentry.
- C. members of the government.
- D. the middle and working classes.

VR2-7 Using information contained in the passage, it is most likely that parliament would have objected to the play The Golden Rump, because it was:

- A. satirical
- B. anti-government
- C. individually insulting
- D. badly written

VR2-8 It is most likely that the author believed one of the main targets attacked by playwrights between 1690 and 1730 to be:

- A. London magistrates.
- B. members of the government.
- C. the Lord Chamberlain’s office.
- D. theatre managers and owners.

Verbal Reasoning

VR3 – Exchange Rates

A basket of chosen groceries may cost £50 in the UK, but to pay for those same groceries in a supermarket in the USA you would need to have exchanged your pounds for US dollars.

People exchange some of their own currency for that of another country in order to buy goods from that country or to save their money in that country - for example, Australia. People choose to save their money in other countries to get a better return than they would in the UK. Such savings would involve lending to a bank by the UK individual and borrowing by the bank.

However, the prices at which currencies are bought and sold fluctuate more than the groceries. A way to avoid all the uncertainty of buying or selling goods from or to other countries in different currencies is for countries all to use the same currency, as in the eurozone. Hence the euro was introduced in 1999 and, by 2013, was used by 17 countries which previously had 17 different currencies all with their own exchange rates.

If someone in France buys goods from a firm in Spain or goes on holiday to Italy, there are no currency issues because they are all using the euro. By contrast, if
exchange rates fluctuate, my UK pounds may buy fewer euros (pound devalues), so a holiday in Portugal becomes more expensive or, if my pounds buy more euros (pound revalues), much cheaper. Problems arise for the eurozone (as for an individual country) if demand and supply for the euro fail to balance – excess demand causes exchange rate rises, excess supply means the exchange rate falls.

VR3-1 If the pound devalues against another currency, exports from the UK to that country will cost less in the country buying them in currency terms.

- A. True
- B. False
- C. Can’t Tell

VR3-2 A person using the euro in France or Germany will be unaffected by changes in exchange rates between the euro and the UK £, even if they purchase goods imported from the UK.

- A. True
- B. False
- C. Can’t Tell

VR3-3 If the interest rate on a savings account in Australia gives a rate of return three times higher than the best rate in the UK, a saver in the UK would always get at least twice as good a return after tax and currency fluctuations have been taken into account.

- A. True
- B. False
- C. Can’t Tell

VR3-4 If I convert £50 into the equivalent number of US dollars, I will be able to buy the same basket of groceries in the USA as I originally purchased in the UK.

- A. True
- B. False
- C. Can’t Tell

VR3-5 A country which imports many raw materials including oil and chemicals from overseas so it can manufacture products is in danger of adversely affecting its exchange rate as a result.

- A. True
- B. False
- C. Can’t Tell

VR3-6 When a saver makes a deposit in a bank, this technically means the money is being lent by the bank.

- A. True
- B. False
- C. Can’t Tell

VR3-7 If by importing £100 million-worth of raw materials, a country is then able to export an extra £200 million-worth of exports to other countries, the overall supply of its currency will rise.

- A. True
- B. False
- C. Can’t Tell
Humans have fought each other since the dawn of civilisation. They have done so over food, territory, resources and slaves. Many developments in technology have been spurred along by the competition over weapons. While aggression may be a part of human nature, there are many ethical issues over war, and most would regard it as a wholly undesirable activity. Unspeakable things happen during wars, but fighting has usually been subject to implicit rules and codes of conduct. Although warfare has changed dramatically since the Geneva Conventions of 1949, they are still considered the cornerstone of contemporary International Humanitarian Law. They protect combatants who find themselves hors de combat, and they protect civilians caught up in the zone of war. These treaties came into play for all recent international armed conflicts, including Afghanistan, the invasion of Iraq, the invasion of Chechnya and the war in Georgia. The Geneva Conventions also protect those affected by non-international armed conflicts such as the Syrian civil war.

While conventions lay down rules to which the leaders of countries or armies must adhere and answer to in international courts, the notional separation of combatants and civilians has become increasingly difficult to make. The mass bombings undertaken by both Britain and Germany in the Second World War were as much about intimidating the population as destroying weapons and military personnel. The rise of terrorism as a mode of warfare has further muddied the water. The use of drones in difficult warzones, presented as a safe and reliable method of attacking soldiers or terrorists who travel or live in civilian areas, has raised ethical questions for their operators.

VR4-1 The Geneva Conventions are designed to:

- A establish the human rights of military personnel in battle.
- B protect civilians against all actions of their government.
- C protect civilians caught up in battle areas.
- D prevent civilians taking up arms in wartime.

A holiday company organizing tours across Asia by train guarantees not to increase its prices once the holiday has been booked. An initial payment of 10% is required with booking, and the other 90% is to be paid in Russian roubles a week before the holiday commences.

This means there is no possibility that the holiday will cost the traveller more than he or she expects to pay.

- A. True
- B. False
- C. Can’t Tell
VR4-2  One conclusion that can be drawn from the passage is that:
- A  humans will always fight one another.
- B  there were no humanitarian conventions before 1949.
- C  there is no justification for the conflict in Afghanistan.
- D  civilians in civil wars have no legal rights.

VR4-3  According to the passage, the writer most probably agrees that:
- A  the Geneva Conventions are ineffective.
- B  the mass bombing of cities in wartime is an international crime.
- C  there will be fewer wars in the future.
- D  developments in technology will prevent wars.

VR4-4  The use of armed drone aircraft, controlled by far distant operators, could be unethical because:
- A  there is a risk of injury to civilians.
- B  the operator may not be a soldier.
- C  terrorists are protected by international law.
- D  their operators can only view through a remote camera.

VR4-5  From the information in the passage, which of the following is correct?
- A  Everyone regards warfare as unethical.
- B  Injury to civilians is an ethical consequence of warfare.
- C  Acts of war are always unethical.
- D  Drone attacks can have unethical consequences.

Verbal Reasoning

VR5 – Greener Jet Engines
The recent decision by the European Parliament to include air traffic in the EU’s Emissions Trading Scheme (ETS) has increased the pressure on aircraft manufacturers to produce ‘greener’ aircraft. An estimated 3% of Europe’s entire greenhouse gas emissions are currently generated by airlines, and with it potentially doubling by 2020 the introduction of this controversial tariff has increased the pace of innovation. There are two areas of potential fuel saving in aircraft design – the engines and the airframe. The ratio of lightweight materials and recycled components in wing and body production is growing, but creating an engine that reduces fuel consumption, noise and nitrous oxide pollution is key.

In normal turbofan designs, an intake fan at the front reduces the speed of air passing around the engine, mixing it with the much faster moving hot gases generated by burning fuel and air to create greater thrust. This calls for larger engine chambers which can allow this slowed air to pass through but the bigger the engine, the greater the weight, fuel consumption and noise. An American company, Pratt and Whitney, have developed such an engine by introducing a geared turbofan to their designs. This is based on the principle that turbines are most effective at high speeds and fans at much lower revolutions.
The gearbox acts to reduce the rotation of the inlet fan to around a third of the turbine inside the engine. This creates a 15% improvement in fuel efficiency and a smaller, lighter housing.

**VR5-1** If airlines adopt aircraft with ‘greener’ credentials by 2020, they will be considered for exemption from the Emissions Trading Scheme by the European Union.
- A. True
- B. False
- C. Can’t Tell

**VR5-2** Airline manufacturers are concentrating solely on the development of lighter, more fuel-efficient engines to meet the stringent emissions tariffs set by the European Union.
- A. True
- B. False
- C. Can’t Tell

**VR5-3** When comparing normal turbofan design to geared turbofans, two of the greatest differences are the size and weight of the chambers housing the engine components.
- A. True
- B. False
- C. Can’t Tell

**VR5-4** According to the EU, by 2020 airlines will contribute 3% of total greenhouse gas emissions across Europe.
- A. True
- B. False
- C. Can’t Tell

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**Verbal Reasoning**

**VR6 – Arctic Foxes**
Research into the variation in numbers of the arctic fox has shown that, in areas where there is a population of small rodents, the number of foxes is associated with the numbers of rodents. The fox populations respond to increased food availability by increasing reproduction. However, in areas where there are no small rodents eg Svalbard in Norway, the picture is more complex.

Prior to 1973, the diaries of polar bear trappers (who took the bear furs, but left the carcasses) reported flourishing populations of arctic foxes.

After 1973, when the polar bear became a protected species, both the trappers and the reports of foxes declined.

Researchers estimated the fox numbers in Svalbard by several methods including a ‘capture index’ (the number of live foxes trapped in baited traps) and an ‘observation index’ (based on sightings by scientists and local people). Estimated numbers of foxes fluctuated: they were low in 1990/1991, rose from 1992 to 1995, and then dropped so sharply in autumn 1995 that they seemed to have disappeared from the area by 1996. Fox tracks were not observed again until autumn 1996.
Two important sources of food for arctic foxes in Svalbard are Barnacle geese and reindeer carcasses. Numbers of Barnacle geese rose until 1994, when predation on nests by foxes left only 2 surviving goslings. Numbers of goslings then rose to over 600 in 1996, when no foxes were observed. There was a sharp rise in reindeer mortality in the winter of 1993/4, which led to a high number of carcasses, but lower numbers in the winter of 1995/6.

Fox numbers may be influenced by the migration of foxes to other areas and/or by disease, but no studies were carried out to investigate this.

VR6-1 Which of the following is most likely to be true?
- A. There is no relationship between the numbers of foxes captured, and those observed by local people.
- B. The numbers of foxes captured and those observed by scientists will be the same.
- C. Where there are rodents, as numbers of rodents go up, so will the number of foxes.
- D. Where there are rodents, as numbers of foxes go up, so will the number of rodents.

VR6-2 Which of the following cannot be inferred from the passage?
- A. Foxes act so as to limit the number of Barnacle geese.
- B. Low reindeer numbers led to the 1996 crash in the number of foxes.
- C. Methods for estimating fox numbers are imprecise.
- D. The variations in animal population numbers are cyclic.

VR6-3 Which of the following statements about the disappearance of foxes in 1996 could be justified from the passage?
- A. The foxes died from starvation.
- B. The foxes were subject to predation by other animals.
- C. The foxes died from disease.
- D. The foxes had all been trapped.

VR6-4 After 1973, which of the following seems the least feasible reason for the decline in observed foxes?
- A. There were fewer trappers.
- B. Trappers did not report their experiences in diaries after 1973.
- D. There were fewer carcasses
DM1

Every year Madrigal School has a school photograph taken. Eight teachers sit at the front in a row.

Mr None sits fifth from the left with Mrs O’Rourke and Mr Percival on either side.

Mr Rowley sits as far away from Mrs O’Rourke as possible.

Mr Stephen sits next to Mr Percival.

Miss Zenzer does not sit beside Mrs O’Rourke or Miss Trollope.

Mr Warlock sits three seats away from Mr None.

Which one of the following statements MUST be true?

A Miss Zenzer sits at the far left of the row.
B Mr Stephen sits next to Mrs O’Rourke.
C Mr Warlock sits next to Mr Percival.
D Miss Trollope sits at the far right of the row.

DM2

I walk my dogs daily.

Barker and Dainty have to walk alone.

Boxer goes for an afternoon walk.

Dainty is the only dog who has two walks each day.

Rex always has his morning walk with another dog.

Which one of the following MUST be true?

A Boxer is Rex’s companion.
B Boxer has more than two walks a day.
C I have at least five dogs.
D Each day I have to make a minimum of six walks with my dogs.

DM3

In a prize draw two boys (Alec and Daniel) and three girls (Betty, Carole and Edna) each picked a prize (Pram and doll set, Roller blades, Chemistry set, Teddy bear, and Jigsaw puzzle).

The Pram and doll set was not picked out by a girl.

Edna and Carole were disappointed when the Roller blades were picked by one of the others.
The Chemistry set did not go to either Edna or Betty.

Daniel was quite amused when he picked the giant Teddy bear.

What gift did Edna pick?

- A Chemistry set
- B Jigsaw puzzle
- C Pram and doll set
- D Teddy bear

DM4

W, X, Y and Z are playing football in the garden. One of them breaks a window by mistake.

W says, 'It was X'.

X says, 'It was Y'.

Y says, 'It was not me'.

Z says, 'It was not me'.

Which one MUST be lying?

- A W is lying
- B X is lying
- C Y is lying
- D Z is lying

DM5

Four people H, I, J, K are a Doctor, a Manager, a Teacher and a Lecturer, not necessarily in that order. They each own a different type of vehicle.

H is a Doctor.

J owns a sports car.

K owns an electric car.

The person who owns a motor bike is not a Teacher.

The Manager polishes her scooter every weekend.

Which one of the following MUST be true?

- A K is a Teacher
- B J is a Teacher
- C I is a Manager
- D K is a Manager
DM6
Should we focus more on rehabilitating offenders rather than punishing them for the crimes they commit?

Select the strongest argument from the statements below.
- A Yes, crimes are often committed by people with serious personal issues.
- B Yes, focusing on the cause of crime will ultimately lead to a reduction in crime.
- C No, it doesn’t matter what causes the crime, a crime is still a crime.
- D No, victims of crime need to see that justice has been done.

DM7
Should the Government make wearing a uniform compulsory in all schools?

Select the strongest argument from the statements below.
- A Yes, school uniform prevents students from being judged by the clothes they wear.
- B Yes, compulsory school uniform prepares pupils for the world of work.
- C No, enforcing school uniform would add to a Head Teacher’s workload.
- D No, school uniforms are expensive for parents to purchase.

DM8
Should the maximum speed limit on motorways be reduced from 70 mph to 60 mph to improve road safety?

Select the strongest argument from the statements below.
- A Yes, reducing the speed limit will cut harmful fuel emissions.
- B No, the accident rate at the lower limit is no different to the one at the higher speed limit.
- C No, it is difficult to stop drivers ignoring the present speed limit; a new speed limit would be ignored in the same way.
- D No, the real problem is slow drivers, it would be better to have a minimum speed limit.

DM9
Should the number of university student places on arts/humanities courses be drastically cut?

Select the strongest argument from the statements below.
- A Yes, as they are not academically rigorous.
- B Yes, because the country does not need people with arts backgrounds.
- C No, because otherwise all the arts lecturers would be without work.
- D No, because many students benefit from the transferable skills they teach.
DM10
The town’s new Academy for Girls specialises in sport.

All pupils at the academy are required to take three sports.

Boxes: gymnastics, swimming, tennis

Which letter shown above represents pupils participating in boxing, athletics and swimming?

- A Letter G
- B Letter M
- C Letter P
- D Letter R

DM11
The diagram shows the status and occupation of a number of people. Each shape shows a different status or occupation.

Key
- males
- in work
- total population
- in education
- married

What does the letter ‘A’ represent in the diagram above?

- A Unmarried women who are in education.
- B Unmarried men who are in work.
- C Married men who are in education.
- D Married men who are neither in work nor in education.
DM12
The water sports centre offers three different activities. The table below shows the activities taken on one particular day.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Number of customers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windsurfing only</td>
<td>5</td>
</tr>
<tr>
<td>Water-skiing only</td>
<td>11</td>
</tr>
<tr>
<td>Canoeing only</td>
<td>4</td>
</tr>
<tr>
<td>Windsurfing and Canoeing</td>
<td>12</td>
</tr>
<tr>
<td>Canoeing and water-skiing</td>
<td>8</td>
</tr>
<tr>
<td>Windsurfing and water-skiing</td>
<td>7</td>
</tr>
<tr>
<td>All three activities</td>
<td>13</td>
</tr>
</tbody>
</table>

There were 60 customers that day. How many did canoeing?

- A 4
- B 33
- C 37
- D 39

DM13
Twelve couples attended the tea dance, but they did not all join in every dance.

Four couples danced the quickstep; they took no further part in the dance.

Three couples danced the foxtrot and the waltz but not the quickstep or samba.

The five couples who danced the samba also danced the foxtrot and the waltz.

Which of the following represents the group of twelve couples?

- A
- B
- C
- D
DM14
The diagram gives information about the numbers of people who had holidays in certain countries.

Which one of the following statements is true?

- A More people went to France than went to Spain.
- B More than half of the people who went to Spain also went to Greece.
- C 8 people went to exactly two countries.
- D 20 people went to only one country.

DM15
One night at a youth club 8 people played snooker.

12 people (of which 4 also played snooker) played table tennis.

9 people played darts (none of these played either snooker or table tennis).

6 people played no game; they just talked.

Which one of the following represents the activities taking place at the youth club that night?

- A
- B
- C
- D
DM16
There are 48 people in a room. They are asked what they enjoy doing in their spare time.

29 of the people say they enjoy reading.

9 of the people say they enjoy watching television.

Which of the following MUST be true?

☐ A Between 10 and 19 (inclusive) people neither like reading nor like watching television.

☐ B There are exactly 20 people who like reading but do not like watching television.

☐ C There are more people who do not like reading than who do not like watching television.

☐ D There are 38 people who like either reading or watching television.

DM17
Martin’s journey home from work involves taking the bus to the station, catching the six o’clock train and then a short walk to his house. If the bus is late, he has to catch a later train.

On 10 days out of the past 50, the bus has not reached the station in time for him to catch the six o’clock train. Similarly on 10 days out of the past 50, the six o’clock train has arrived late at Martin’s home station.

Is it more likely than not that Martin will get home on time tomorrow?

☐ A Yes, the buses and the trains each meet the requirements of the timetable 40 out of 50 times respectively, so he should get home on time tomorrow.

☐ B Yes, if the bus is late, the train may be too, so he would get home on time.

☐ C No, on 20 occasions over the 50 days either the train or bus has been late, so it is unlikely he will get home on time.

☐ D No, every day is different so predictions are no more than guesses and wholly unreliable.
**DM18**
Father Christmas has a sack of wrapped presents from which visiting children can randomly select a gift. At the start, there are 15 presents of a harmonica and 15 of a drum in Father Christmas’s sack. By lunchtime, 5 harmonicas and 4 drums have been chosen.

Has the chance of a harmonica being randomly selected now increased when the next child collects a present?

- **A** Yes, it was 1/2 and is now 10/21.
- **B** Yes, it was 1/2 and is now 11/21.
- **C** No, it was 1/2 and is now 11/21.
- **D** No, it was 1/2 and is now 10/21.

**DM19**
Three students, Sarah, Simon and Paul test the same coin for bias.

The table gives information about their results.

<table>
<thead>
<tr>
<th></th>
<th>Sarah</th>
<th>Simon</th>
<th>Paul</th>
</tr>
</thead>
<tbody>
<tr>
<td>Throws</td>
<td>50</td>
<td>100</td>
<td>160</td>
</tr>
<tr>
<td>Heads</td>
<td>37</td>
<td>73</td>
<td>88</td>
</tr>
</tbody>
</table>

Sarah and Simon pool their results to give their estimate of the probability that when the coin is thrown once it lands Heads. Paul uses his results to give his estimate.

**Will Sarah and Simon’s estimate be better than Paul’s estimate?**

- **A** Yes, because it comes from two different tests.
- **B** Yes, because their separate estimates are very close to each other.
- **C** No, because Paul had more throws in total.
- **D** No, because Paul’s estimate will be nearer one half.
Quantitative Reasoning

QR1 Buying Leaflets
The table gives information about the cost of buying one leaflet from a printing company. VAT is charged at 20% of the total order.

<table>
<thead>
<tr>
<th></th>
<th>Number Ordered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-9</td>
</tr>
<tr>
<td>Single sided black/white</td>
<td>70p</td>
</tr>
<tr>
<td>Double sided black/white</td>
<td>£1.30</td>
</tr>
<tr>
<td>Single sided colour</td>
<td>£1.60</td>
</tr>
<tr>
<td>Double sided colour</td>
<td>£2.90</td>
</tr>
</tbody>
</table>

Note: 100p = £1.00

QR1-1 Gina buys 450 single sided colour leaflets. The total cost, to the nearest £, including VAT is:
- A £206
- B £216
- C £270
- D £324
- E £432

QR1-2 Sophie buys 200 single sided black and white and 200 single sided colour leaflets. The total cost, including VAT is:
- A £216
- B £248
- C £310
- D £372
- E £420

QR1-3 Karin buys 150 single sided black and white and one and a half times as many single sided colour leaflets. The total cost, including VAT is:
- A £222
- B £234
- C £288
- D £330
- E £342

QR1-4 Stefan bought 300 double sided black and white leaflets and 100 single sided colour leaflets. What percentage, correct to 1 decimal place, of the total cost including VAT, did he spend on the colour leaflets?
- A 27.2%
- B 27.6%
- C 32.7%
- D 56.1%
- E 67.3%

QR1-5 Bo bought some double sided colour leaflets. The VAT on her bill was £12. How many leaflets did she buy?
- A 30
- B 36
- C 60
- D 72
- E 75

QR1-6 Frank bought some leaflets. The cost including VAT was £174. All the leaflets Frank bought were the same. How many leaflets did he buy?
- A 145
- B 290
- C 348
- D 696
- E 725
Quantitative Reasoning

QR2 Taste
A group of people were asked to taste some paper soaked in a weak solution of the chemical PTC. The table gives some information about the results.

<table>
<thead>
<tr>
<th>Can taste PTC</th>
<th>Women</th>
<th>Men</th>
<th>Girls</th>
<th>Boys</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>35</td>
<td>72</td>
<td>18</td>
<td>27</td>
</tr>
<tr>
<td>Cannot taste PTC</td>
<td>20</td>
<td>60</td>
<td>10</td>
<td>20</td>
</tr>
</tbody>
</table>

QR2-1 Of the adults in the group, what percentage, correct to 1 decimal place can taste PTC?
- A 40.0%
- B 40.8%
- C 57.2%
- D 58.0%
- E 59.1%

QR2-2 3/5 of the women who can taste PTC and 7/12 of the men who can taste PTC do not drink coffee. What percentage, correct to 1 decimal place, of the adults who can taste PTC do drink coffee?
- A 33.7%
- B 41.1%
- C 43.9%
- D 58.9%
- E 66.3%

QR2-3 If 10% of the men who said they cannot taste PTC could in fact taste PTC at higher concentrations, what would be the ratio of men who can taste PTC to men who cannot taste PTC, at higher concentrations?
- A 39:25
- B 39:27
- C 39:30
- D 41:25
- E 41:30

QR2-4 A population of 100,000 people is equally divided between men, women, boys and girls. Use the data in the table to estimate the number, correct to 4 significant figures, of people in the population who can taste PTC.
- A 40,020
- B 41,980
- C 58,020
- D 58,610
- E 59,980

QR2-5 In a population, 8% can taste neither PTC nor sodium benzoate, 74% can taste PTC and 60% can taste sodium benzoate. What percentage can taste exactly one of these two chemicals?
- A 18%
- B 32%
- C 42%
- D 50%
- E 58%
Quantitative Reasoning

QR3 Balloon Flights
Helium balloons are used for weather research. Here is some information about how the temperature of the atmosphere changes with height and how fast balloons ascend.

Dry Air Temperature decrease is 5.2°C per 500m.

Wet Air Temperature decrease is 2.8°C per 500m.

The rate of climb of a balloon is 4.8 metres per second.

In addition, here is some information about conversion factors.

5280 feet = 1 mile. 1 mile = 1.6 km.

You can convert °C to °F using the rule F = 1.8 × C + 32.

QR3-1 When the ground temperature is 24°C, what is the temperature, correct to 1 decimal place, in dry air at a height of 1.8 km?
A 5.3
B 10.1
C 13.9
D 18.7
E 19.3

QR3-2 When the ground temperature is 24°C, at what height in dry air, correct to 1 decimal place, is the temperature -15°C?
A 3.2 km
B 3.8 km
C 7.0 km
D 7.5 km
E 15.0 km

QR3-3 A balloon rises in wet air from a ground temperature of 24°C. How many minutes, correct to the nearest minute, will it take to reach a height where the temperature is 0°C?
A 6
B 8
C 9
D 15
E 343

QR3-4 A balloon rises from the ground through dry air. After 5 minutes the temperature of the air round the balloon is 12°C. What is the ground temperature, correct to the nearest °C?
A 15°C
B 16°C
C 20°C
D 27°C
E 28°C

QR3-5 A balloon flew on Monday. A second balloon flew on Tuesday. The rate of climb of the second balloon was 25% more than the first balloon’s. Both balloons flew to the same height. Which one of the following statements is true?
A The second balloon took 25% of the time that the first balloon did.
B The second balloon took 75% of the time that the first balloon did.
C The second balloon took 80% of the time that the first balloon did.
D The second balloon took 120% of the time that the first balloon did.
E The second balloon took 125% of the time that the first balloon did.

QR3-6 What is the decrease of temperature, correct to 2 decimal places, in wet air when measured in °F per mile?

- A 2.49 °F per mile
- B 4.98 °F per mile
- C 6.30 °F per mile
- D 16.13 °F per mile
- E 29.95 °F per mile

QR4 Concrete

The table gives information about the ratios, by volume, of material used to make types of concrete mix.

<table>
<thead>
<tr>
<th>Type</th>
<th>Cement</th>
<th>Sand</th>
<th>Gravel</th>
</tr>
</thead>
<tbody>
<tr>
<td>General use</td>
<td>1</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Foundation</td>
<td>1</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>High Strength</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Watertight</td>
<td>2</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Rough</td>
<td>1</td>
<td>4</td>
<td>8</td>
</tr>
</tbody>
</table>

For example, rough concrete mix requires a ratio cement:sand:gravel of 1:4:8 by volume.

The mass of cement is 2,240 kg per m³. The mass of sand is 1,600 kg per m³. The mass of gravel is 1,680 kg per m³.

For all concrete mixes, water is added in the proportion 7 litres water for every 25 kg of cement to make concrete.

(The mass of 1 litre of water is 1 kg) (1000 litres = 1m³).

QR4-1 Which type of concrete mix contains the greatest proportion, by volume, of sand?

- A General use
- B Foundation
- C High Strength
- D Watertight
- E Rough

QR4-2 Jim is making general use concrete mix for a garage floor. The floor is rectangular, 9m by 4m and 15cm deep. How much sand in m³, correct to 2 decimal places, is required?

- A 1.35 m³
- B 1.54 m³
- C 1.62 m³
- D 1.66 m³
- E 1.80 m³

QR4-3 What is the ratio, by mass, of cement:gravel for general use concrete mix?

- A 1:3
- B 1:4
- C 2:9
- D 8:3
- E 10:21
QR4-4  How many litres of water, correct to the nearest whole litre, are needed to make 3.5 m$^3$ of watertight concrete?

- A 111
- B 366
- C 399
- D 627
- E 5089

QR4-5  When high strength concrete is made, what percentage, correct to the nearest whole number, of the total mass will be water?

- A 8%
- B 9%
- C 10%
- D 22%
- E 28%

QR4-6  What is the ratio by volume, correct to 3 significant figures, of water to cement in any concrete mix?

- A 1:0.0159
- B 1:0.159
- C 1:0.627
- D 1:1.59
- E 1:6.27

For me the most challenging sub-test was quantitative reasoning. I initially assumed that this was just simple maths and ignored it for a while. It was only later that I realised how constricting the timing was. While practising I learnt how important it was to not dwell on any questions and just guess and move on if I got stuck.

If I needed to use the calculator I made sure ‘number-lock’ was turned on and I used the set of number keys on the right hand side of the keyboard.”

Rahul, 99th percentile
Quantitative Reasoning

QR5 Motorboats
The table shows the total cost of renting different types of motorboats for a certain number of hours. Total cost is calculated using the deposit and the cost of renting per hour. Some information is missing in the table.

<table>
<thead>
<tr>
<th>Type</th>
<th>Hours</th>
<th>Deposit</th>
<th>Cost per Hour</th>
<th>Total cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>2</td>
<td>_</td>
<td>£25</td>
<td>£135</td>
</tr>
<tr>
<td>B</td>
<td>4</td>
<td>_</td>
<td>£60</td>
<td>£330</td>
</tr>
<tr>
<td>C</td>
<td>8</td>
<td>£100</td>
<td>£75</td>
<td>_</td>
</tr>
<tr>
<td>D</td>
<td>10</td>
<td>£95</td>
<td>£100</td>
<td>£1,095</td>
</tr>
</tbody>
</table>

QR5-1 If the deposit for Type D motorboats is increased by 5% on Sundays, what will be the total cost of renting a Type D motorboat for 6 hours on a Sunday?

- A. £695.00
- B. £699.75
- C. £750.20
- D. £754.25
- E. £950.00

QR5-2 Martha's total cost of renting a Type C motorboat was £325. For how many hours did she rent the motorboat?

- A. 1
- B. 2
- C. 3
- D. 4
- E. 5

QR5-3 The total cost of renting a Type E motorboat is £240 per hour. Type C and Type E motorboats have the same deposit. What is the ratio of the cost per hour of a Type C motorboat to that of a Type E motorboat?

- A. 1:3
- B. 15:28
- C. 14:23
- D. 5:7
- E. 23:27

QR5-4 Alan rented a Type A motorboat for 3 hours on Monday and a Type C motorboat for 2 hours on Tuesday. What was the percentage change in Alan's total cost from Monday to Tuesday?

- A. 15.00%
- B. 50.00%
- C. 56.25%
- D. 72.25%
- E. 75.00%
AR1-5
Test shape:
☐ A. Set A
☐ B. Set B
☐ C. Neither

AR1-6
Test shape:
☐ A. Set A
☐ B. Set B
☐ C. Neither

AR1-7
Test shape:
☐ A. Set A
☐ B. Set B
☐ C. Neither

AR1-8
Test shape:
☐ A. Set A
☐ B. Set B
☐ C. Neither

AR1-9
Test shape:
☐ A. Set A
☐ B. Set B
☐ C. Neither

AR1-10
Test shape:
☐ A. Set A
☐ B. Set B
☐ C. Neither
Abstract Reasoning

**AR2**

**Set A**

AR2-1 Test shape:

- A. Set A
- B. Set B
- C. Neither

AR2-2 Test shape:

- A. Set A
- B. Set B
- C. Neither

**Set B**

AR2-3 Test shape:

- A. Set A
- B. Set B
- C. Neither

AR2-4 Test shape:

- A. Set A
- B. Set B
- C. Neither
Abstract reasoning was the subtest I found the most challenging at the beginning. It was something completely new to me that I simply couldn’t get my head round! But I found doing simpler questions first to build my confidence (and, more importantly, to get an idea of the patterns that constantly came up), before moving onto more difficult questions, was a system that worked for me. The biggest thing you can do to improve is to do practice questions as inevitably you will get better over time.

For each subtest I had a rough idea of how long each question should take. If I was spending too long on a particular question I would force myself to move on as there may be easier marks I could gain towards the end.”

Ayaz, 99th percentile
Abstract Reasoning

AR3

Set A

Set B

AR3-1 Which of the following test shapes belongs in Set A?

☐ A. ☐ C.

☐ B. ☐ D.

AR3-2 Which of the following test shapes belongs in Set A?

☐ A. ☐ C.

☐ B. ☐ D.
AR3-3 Which of the following test shapes belongs in Set A?

A. 
B. 
C. 
D.

AR3-4 Which of the following test shapes belongs in Set B?

A. 
B. 
C. 
D.

AR3-5 Which of the following test shapes belongs in Set B?

A. 
B. 
C. 
D.

AR3-6 Which of the following test shapes belongs in Set B?

A. 
B. 
C. 
D.
Abstract Reasoning

AR4

Set A

Set B

AR4-1

Test shape:

A. Set A
B. Set B
C. Neither

AR4-2

Test shape:

A. Set A
B. Set B
C. Neither
Don’t beat yourself up if you’re having a bad session or you keep doing badly in a particular section. The most important thing to do is to go into each section with as much confidence as possible.

I knew from my practice sessions that I wasn’t particularly good at Abstract Reasoning so in the 1 minute instruction section I gave myself a silent pep talk in my head and I told myself that I was going to ace it. It’s actually crazy how much positive thinking can affect your results because I ended up scoring the highest in that section!

Suhur, Top 5% candidate
Abstract Reasoning

AR5

Which figure completes the series?

- A.
- B.
- C.
- D.

AR6

Which figure completes the statement?

- A.
- B.
- C.
- D.


**Situational Judgement**

**SJ1**
A medical student, Sehn, has been assigned to work with a consultant, Margaret, on a hospital ward for one week. The purpose of this attachment is for Sehn to gain insight into the work the Margaret undertakes and assist in his development. At the start of the week, Margaret assigns Sehn personal tasks, which do not appear to be related to Sehn’s clinical development. These tasks will take at least two of the five days to complete.

How **appropriate** are each of the following responses by **Sehn** in this situation?

**SJ1-1** Complete the assigned personal tasks for Margaret, without mentioning that they do not seem to be related to his development
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

**SJ1-2** Suggest to Margaret examples of more clinical tasks that he could get involved with during the attachment
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

**SJ1-3** Seek advice from the academic tutor responsible for the learning attachment
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

**SJ2**
A medical student, Gemma, is observing a patient consultation conducted by Dr Mitchell. Dr Mitchell is updating the patient’s medical records on the computer. He asks the patient whether he is allergic to penicillin, to which the patient replies Yes. However, Gemma notices that Dr Mitchell types No as the response to this question on the computer record.

How **appropriate** are each of the following responses by **Gemma** in this situation?

**SJ2-1** Inform Dr Mitchell once the patient has left the room that he appears to have made an error with the computer record
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

**SJ2-2** Change the computer record after Dr Mitchell and the patient have left the room, to avoid Dr Mitchell being embarrassed
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

**SJ2-3** Ask the patient to repeat his answer to the question
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do
SJ2-4 Inform the patient privately about the error after the consultation has finished
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

SJ3 A dental student, Rio, is leading a group of fellow students in a project they have been assigned to work on together. Jerome approaches Rio with a complaint about one of the other students in the group, Elizabeth. Jerome insists that Elizabeth is not dedicating enough time and effort to the group project. Jerome explains that Elizabeth leaves meetings early and her notes are not very comprehensive when she is asked to research topics. He asks if Rio can do something about this as he is leader of the group.

How appropriate are each of the following responses by Rio in this situation?

SJ3-1 Take no action unless further complaints are received from other members of the group
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

SJ3-2 Suggest to Jerome that he raises his concerns with Elizabeth directly
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

SJ3-3 Report Elizabeth’s lack of dedication to the academic tutor
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

SJ3-4 Ask other members of the project group whether they have similar concerns about Elizabeth’s behaviour
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

SJ3-5 Speak to Elizabeth directly to raise concerns about the time and effort she is dedicating to the group project
- A A very appropriate thing to do
- B Appropriate, but not ideal
- C Inappropriate, but not awful
- D A very inappropriate thing to do

SJ4 A medical student is due to attend an appointment with her supervisor. One hour prior to the meeting, an opportunity to attend a clinical session becomes available at short notice. The student knows this session would be of value to her learning and development, however it will clash with her appointment with her supervisor.

How important to take into consideration are the following factors for the student when considering how to respond to the situation?
SJ4-1 The importance of the meeting with the supervisor
- A Very important
- B Important
- C Of minor importance
- D Not important at all

SJ4-2 Whether the supervisor is contactable to be able to re-arrange the meeting
- A Very important
- B Important
- C Of minor importance
- D Not important at all

SJ4-3 That other clinical sessions may arise in future that will be of value to her development
- A Very important
- B Important
- C Of minor importance
- D Not important at all

SJ4-4 Her supervisor’s view on whether this clinical session would be a valuable learning opportunity
- A Very important
- B Important
- C Of minor importance
- D Not important at all

SJ5 A medical student, Cameron, is told by a patient that a consultant frequently swears loudly on the ward which makes him feel so uncomfortable that he does not want to stay in hospital. Cameron consults a nurse on the ward and she tells him that she has not ever witnessed this behaviour by the consultant. The nurse reminds Cameron that the patient might just dislike being in hospital. Cameron is unsure what to do because the consultant is marking one of his assessments.

How important to take into account are the following considerations for Cameron when deciding how to respond to the situation?

SJ5-1 The consultant is marking one of his assessments
- A Very important
- B Important
- C Of minor importance
- D Not important at all

SJ5-2 A patient on the ward has told him that he feels so uncomfortable that he wants to leave
- A Very important
- B Important
- C Of minor importance
- D Not important at all

SJ5-3 Other patients may have overheard the consultant swearing loudly on the ward and also feel uncomfortable
- A Very important
- B Important
- C Of minor importance
- D Not important at all

SJ5-4 The nurse has not witnessed the consultant swearing loudly on the ward
- A Very important
- B Important
- C Of minor importance
- D Not important at all
A consultation is taking place between a consultant and a patient; a medical student is observing. The consultant tells the patient that he requires some blood tests to rule out a terminal disease. The consultant is called away urgently, leaving the medical student alone with the patient. The patient tells the student that he is worried he is going to die and asks the student what the blood tests will show.

How appropriate are each of the following responses by the medical student in this situation?

SJ6-1  **Explain to the patient that he is unable to comment on what the tests will show as he is a medical student**
- A  A very appropriate thing to do
- B  Appropriate, but not ideal
- C  Inappropriate, but not awful
- D  A very inappropriate thing to do

SJ6-2  **Acknowledge the patient’s concerns and ask whether he would like them to be raised with the consultant**
- A  A very appropriate thing to do
- B  Appropriate, but not ideal
- C  Inappropriate, but not awful
- D  A very inappropriate thing to do

SJ6-3  **Suggest to the patient that he poses these questions to the consultant when he returns**
- A  A very appropriate thing to do
- B  Appropriate, but not ideal
- C  Inappropriate, but not awful
- D  A very inappropriate thing to do

SJ6-4  **Tell the patient that he should not worry and that it is unlikely that he will die**
- A  A very appropriate thing to do
- B  Appropriate, but not ideal
- C  Inappropriate, but not awful
- D  A very inappropriate thing to do
VR1 Correct answer: D
Dawkins has used Paley’s analogy to suggest that the maker of his watch could not be blind, otherwise the making of the watch would be too difficult or impossible, and also that natural selection is blind in the sense that it does not operate towards a final goal.

VR1-2 Correct answer: A
This is supported by the passage in the first paragraph, the teleological argument has been commonly used to prove the existence of a Creator or Supreme Being.

VR1-3 Correct answer: B
This is supported by the passage in the theory of Charles Darwin: ...theory of natural selection as an explanation for the variety and complexity of living organisms. This did not presuppose a hidden designer. Therefore events are not planned, they occur by chance.

VR1-4 Correct answer: C
This is supported by the passage using Paley’s attempt to provide a scientific explanation of a designed world using Newton’s Law of Motion but failing to justify it fully when Darwin and Dawkins published books on evolution and natural selection.

VR1-5 Correct answer: A
An analogy is a form of reasoning using familiarity in which one thing is referred to as another thing, on the basis that the other thing is of similar structure. Paley’s story of the construction of a watch on the basis that it is very similar to the way the universe is constructed is a classic example of analogy.

VR1-6 Correct answer: A
This is supported by Paley’s argument in the first paragraph. He pointed to the intricate structure of living things and argued that they were so cleverly put together that some unknown designer must have made them. Using this information, it can be inferred that the similar structure means they have a similar purpose, so that the eye may take pictures like a camera.

VR2 Correct answer: B
This is supported in paragraph 1: ‘In 1660 drama was legalised once more. It also goes on to say that the censorship of plays was a result of Royal Sponsorship, suggesting the King of 1660 was a supporter of Theatre.

VR2-2 Correct answer: C
This is supported by paragraph 1 which refers to 2 theatres in London in 1660 but no comment about number of London theatres in 1737 (paragraphs 2-3).

VR2-3 Correct answer: D
This is supported by paragraph 4: After 1788 magistrates could authorise local theatres. Many new provincial theatres were built but London theatres were still restricted to two.

VR2-4 Correct answer: A
In 1660 the king controlled criticism by sponsorship of theatres (paragraph 1) but in the 1730s the government found it necessary to take legislative and punitive action to reduce/control criticism (paragraph 2). No indication is given of why the king sponsored theatres in paragraph 1 other than control.
**VR2-5 Correct answer: A**  
This is supported by the last paragraph which states that there was no longer a limit of having theatres solely in London.

**VR2-6 Correct answer: D**  
This is supported by the passage in paragraph two. Owners, seeking increased profits wanted more socially diverse audiences i.e. not the upper class/a range of people.

**VR2-7 Correct answer: C.**  
This is supported by the passage in paragraph two where it states that the play offensively mocked King George’s personal habits. None of the other response options are is cited in this passage as a feature of this play.

**VR2-8 Correct answer: B**  
This is supported by the passage in paragraph two. Many dramatists, leading up to the late 1730s criticised the government and royal family.

**Verbal Reasoning – VR3 Exchange Rates**

**VR3-1 Correct answer: True**  
If the exchange rates change so the overseas purchaser can buy more pounds for their currency than previously, then it will be true that exports from the UK will cost less in the country buying them in currency terms.

**VR3-2 Correct answer: False**  
Fluctuations do occur in the exchange rate between the pound (£) and the euro, so (as in the example in para 4) a person in France or Germany will be affected by fluctuation in exchange rates between the two currencies.

**VR3-3 Correct answer: Can’t Tell**  
We have no idea whether interest rates in the UK or Australia will remain unchanged or how the exchange rates between the UK £ and Australian $ have fluctuated or will fluctuate, nor does the passage tell us anything about the tax rates in the two countries so we cannot tell whether the statement is true or false.

**VR3-4 Correct answer: Can’t Tell**  
Prices can differ greatly in different countries and the passage says nothing about purchasing power.

**VR3-5 Correct answer: True**  
The more oil or chemicals the UK purchases from overseas, the greater will be its demand for foreign currency, so the supply of pounds in the foreign exchange markets will rise unless balanced by more demand from overseas for UK pounds.

**VR3-6 Correct answer: False**  
As para 2 makes clear, when a saver makes a deposit in a bank, this technically means the money is being borrowed – not lent - by the bank.

**VR3-7 Correct answer: False**  
No, the importing country would have to sell £100 million–worth of pounds to buy other currencies but the countries to which it is exporting goods will need to buy £200 million–worth of pounds to pay for the goods, so it is the overall demand for pounds – not supply – which will rise.
VR3-8  Correct answer: False
The statement is incorrect because there is a possibility that the holiday may cost the traveller more than anticipated if the exchange rate for the Russian rouble rises and therefore the traveller needs to exchange more pounds to pay for the holiday.

Verbal Reasoning  –  VR4 Rule of War

VR4-1  Correct answer: C
The first paragraph states that they protect civilians caught up in the zone of war.

VR4-2  Correct answer: A
First line states that Humans have fought each other since the dawn of civilisation and 3rd line states aggression may be a part of human nature so it is fair to assume that this will always continue to be the case.

VR4-3  Correct answer: B
The bombing and intimidation (paragraph 2) goes against the Geneva Conventions’ purpose to protect civilians caught up in the zone of war potentially making it an international crime.

VR4-4  Correct answer: A
It is logical that far distant operators may not be as accurate in their control of the armed drone aircraft and cause injury to civilians.

VR4-5  Correct answer: D
The last sentence states The use of drones has raised ethical questions for their operators. Therefore, if questions have been raised for their operators then there must have been some consequences that spurred those questions.

Verbal Reasoning  –  VR5 Greener Jet Engines

VR5-1  Answer: Can’t Tell.
There is no information in the passage that suggests the EU will consider exemption for airlines from the Emissions Trading Scheme.

VR5-2  Answer: False.
This is supported by the first paragraph statement: ‘There are two areas of potential fuel saving in aircraft design – the engines and the airframe. The ratio of lightweight materials and recycled components in wing and body production is growing’.

VR5-3  Answer: True.
This is inferred by the majority of the information in the third paragraph, particularly in the final sentence which states that the geared turbofan creates ‘a 15% improvement in fuel efficiency and a smaller, lighter housing’.

VR5-4  Answer: False.
This is inferred by the first paragraph statement ‘An estimated 3% of Europe’s entire greenhouse gas emissions are currently generated by airlines, and with it potentially doubling by 2020…’ suggesting it could rise to 6% of emissions.
Verbal Reasoning –
VR6 Arctic Foxes

VR6-1 Answer: C.
This is supported by the information presented in the whole passage. Since rodents are a food source for foxes, it is common sense that when there are more rodents, there will be more foxes as their reproduction is dependent on food availability.

VR6-2 Answer: D.
The passage does not indicate that the animal population numbers in general are cyclic. On the contrary, the passage refers to the estimated numbers of foxes as fluctuated.

VR6-3 Answer: A.
In the third and fourth paragraph, the passage made a link between the decline in the number of foxes in 1996 and the low number of reindeer carcasses in 1995/6. It can, thus, be inferred that the low number of reindeer carcasses in 1995/6, which are an important source of food for foxes, led to the starvation of foxes which consequently declined in number.

VR6-4 Answer: C.
The passage does not state that Polar bears have declined after 1973. On the contrary, the Polar bears after 1973 became protected species, therefore one would expect that there will be fewer carcasses left by trappers. Therefore, this option cannot be one of the reasons for the decline in observed foxes. As Polar bears became a protected species then there will be fewer trappers probably not reporting their experiences.

Decision making

DM1 Correct answer: A
From left to right, the teachers are sitting in this order: Miss Zenzer, Mr Warlock, Miss Trollope, Ms O’Rourke, Mr None, Mr Percival, Mr Stephen, and Mr Rowley.

DM2 Correct answer: C
Rex has his morning walk with another dog so this cannot be Barker or Dainty as they have to walk alone. Boxer goes for an afternoon walk so there must be one other dog that is Rex’s companion on his morning walk - at least five dogs.

Not A as Boxer has to walk alone. Not B as Boxer has an afternoon walk. Not D as the minimum number of walks would be 5: 1 x Barker, 2 x Dainty, 1 x Boxer and 1 x Rex (with another dog).

DM3 Correct answer: B
Each child picked the following gift: Alec = Pram and doll set; Betty = Roller blades; Carole = Chemistry set; Daniel = Teddy bear; Edna = Jigsaw puzzle.

DM4 Correct answer: B
Suppose W is telling the truth, and X is lying, then Y and Z are telling the truth. X is therefore the only one who must be lying.

W cannot be lying as X or Y would also be lying. Y cannot be lying as W would also be lying. Z cannot be lying as X would also be lying.

DM5 Correct answer: C
The Manager must be I as we know H is a Doctor and J and K own cars that is not owned by the Manager. K and J could be the Teacher but they could equally be the Lecturer. K cannot be the Manager as they own an electric car and the Manager has a scooter.
DM6  Correct answer: B  
B is the strongest argument that deals with the outcome of rehabilitation. The other options are a matter of opinion.

DM7  Correct answer: A  
A is the strongest argument that considers the impact of the Government’s action to those wearing the uniform (all the students). The other options considers only a subset of those affected.

DM8  Correct answer: B  
B is the strongest argument that deals with the aim to improve road safety (accident rate). The other options are a matter of opinion.

DM9  Correct answer: D  
D is the strongest argument that deals with the consequence of the courses being cut. The other options are matter of opinion.

DM10  Correct answer: B  
Letter M is the only letter that represents boxing, athletics and swimming. Letter G represents tennis and swimming. Letter P represents line-dancing and swimming. Letter R represents tennis, gymnastics and boxing.

DM11  Correct answer: C  
The letter ‘A’ is placed within the shapes that represent ‘married’, ‘males’ and ‘in education’.

DM12  Correct answer: C  
The number of customers who did canoeing either solely or with another activity is 24 (4 + 12 + 8). 13 people did all three activities so in total 37 customers took part in canoeing.

DM13  Correct answer: B  
All four diagrams have a large circle to indicate attendance at the tea dance. A separate oval is used to represent those who danced the quickstep but took no further part in the dance. Three overlapping shapes are necessary to show the remaining couples’ dance variations. Only the diagram in option B represents those couples who danced the samba, foxtrot and the waltz.

DM14  Correct answer: C  
In total 8 people went to exactly two countries (4 people went to France and Spain, 3 people went to Spain and Greece, 1 person went to France and Greece). The same amount of people went to France as went to Spain (15) so A cannot be correct. 5 of the 15 people who went to Spain also went to Greece so B cannot be correct. 23 people only went to one country so D cannot be correct.

DM15  Correct answer: A  
A separate oval is used to represent the 9 people who played darts but no other activity. 6 people played no game so this number needs to be outside the ovals. Overlap between ovals is needed for the 4 people who played table tennis and snooker. Only the diagram in option A reflects this.

DM16  Correct answer: A  
In total, 38 people (29 + 9) like reading and/or watching television. It is not known if there is any overlap in those who enjoy reading and watching television so the range of people must be 10 (48 – 38) and 19 (48 – 29).

DM17  Correct answer: A  
The first bus and the train have been on time 40/50and40/50timesrespectively(80/100). The probability calculation is 0.8 X 0.8 = 0.64, so it is more likely than not that Martin will get home on time.
DM18  Correct answer: D
The chance of selecting a harmonica at first is 1/2 as there are an even number of harmonicas and drums (30 in total). After 9 gifts have been selected, there are 21 left in the sack (10 harmonicas and 11 drums). The chance of selecting a harmonica is 10/21 which is lower than the original chance of 1/2 so the correct answer is ‘No’.

DM19  Correct answer: C
Sarah and Simon collectively had 150 throws whereas Paul had 160 throws – Paul’s estimate is therefore more reliable. The other options are statistically incorrect.

Quantitative Reasoning –
QR1 Buying Leaflets

QR1-1  The correct answer is D: £324.
Calculation required: 450 x £0.60 x 1.20

QR1-2  The correct answer is A: £216
Calculation required:
200 × (£0.30 + £0.60) × 1.20

QR1-3  The correct answer is B: £234
Calculation required:
(150 × £0.40 + 225 × £0.60) × 1.20

QR1-4  The correct answer is C: 32.7%.
Calculation required:
(100 × £0.80) × 1.20 / (300 × £0.55 + 100 × £0.80) × 1.20) x100

QR1-5  The correct answer is A: 30.
Calculation required:
12 ÷ 0.2 = 60  60 ÷ 2

QR1-6  The correct answer is E: 725.
Calculation required:
174 ÷ 1.2 = 145  145 ÷ 0.2

Quantitative Reasoning –
QR2 Taste

QR2-1  The correct answer is C: 57.2%.
Calculation required:
35 + 72 + 20 + 60 = 187
35 + 72 + 107 (107+187) ÷ 100 = 57.2%

QR2-2  The correct answer is B: 41.1%
Calculation required:
100 - $\frac{63}{35+72}×100 = 41.1%$

QR2-3  The correct answer is B: 39:27
Calculation required: 78:54 + 39:27
60 ÷ 10 + 6, 72 ÷ 6 = 78, 60 - 6 = 54

QR2-4  The correct answer is E: 59,980.
Calculation required:
$\frac{35}{55}×25,000 + \frac{72}{132}×25,000 + \frac{18}{28}×25,000 + \frac{27}{47}×25,000$
= 59,980

QR2-5  The correct answer is D: 50%.
Calculation required: 74 − x + 60 − x + 8 + x
= 100, x = 42, 32 + 1

Quantitative Reasoning –
QR3 Balloon Flights

QR3-1  The correct answer is A: 5.3.
Calculation required: 24 − (1.8 × 5.2) / 0.5
= 24 − 18.72

QR3-2  The correct answer is B: 3.8 km.
Calculation required: 24 −15 = 39, 39 ÷ 5.2 = 7.5, 7.5 × 0.5
PRACTICE QUESTIONS

QR3-3  The correct answer is D: 15.
Calculation required: 24 ÷ 2.8 = 8.57. 8.57 × 500 + 4285, 4285 ÷ 4.8 = 892 seconds

QR3-4  The correct answer is D: 27°C.
Calculation required: Height reached = 5 × 60 × 4.8 = 1440m, Temp change = (1440 ÷ 500) × 5.2 = 14.976, 14.976 + 12 = 27°C.

QR3-5  The correct answer is C:
The second balloon took 80% of the time that the first balloon did. Calculation required: 100/125 × 100 = 80

QR3-6  The correct answer is D: 15.
Calculation Required: If 0˚C at 0 metres = (0 x 1.8) + 32 = 32˚F at 0 metres, then -2.8˚C at 500 metres = -(2.8 x 1.8) + 32 = 26.96˚F at 500 metres.
The rate of decrease of temperature is therefore: 32˚F - 26.96˚F = 5.04˚F per 500 metres.
Conversion to ˚F per mile: 1600/500 = 3.2. 5.04 × 3.2 = 16.13˚F per mile.

Quantitative Reasoning – QR5 Motorboats

QR5-1  Answer: B.
Deposit for Type D motorboat on Sundays = 95 + 5 × 95/100 = 95 + 4.75 = £99.75.
Total cost of renting a Type D motorboat for 6 hours on a Sunday = Deposit + Cost per hour × number of hours = £99.75 + £100 × 6 = £99.75 + £600 = £699.75.

QR5-2  Answer: C.
Total cost of renting a Type C motorboat for x hours = Deposit + Cost per hour × number of hours = £100 + £75x
Or, £325 = £100 + £75x
Or, £75x = £325 - £100 = £225
Or, x = 225/75 = 3.

QR5-3  Answer: B.
Total cost of renting a Type E motorboat for 1 hour = Deposit + Cost per hour × 1
Deposit = £100
240 = 100 × Cost per hour of Type E motorboat
Or, Cost per hour of Type E motorboat = 240 ÷ 100 = £140
Cost per hour of Type C motorboat = £75
Required ratio = £75: £140 = 15:28.
Total cost of renting a Type A motorboat for 3 hours = Deposit + Cost per hour × number of hours

For a Type A motorboat, if the deposit is x, then $135 = x + 2 \times 25$
Or, $x = 135 - 50 = £85$
Therefore, Total cost of renting a Type A motorboat for 3 hours on Monday = $85 + 3 \times 25 = £160$
Total cost of renting a Type C motorboat for 2 hours on Tuesday = $100 + 75 \times 2 = £250$
Percentage increase in Alan’s total cost from Monday to Tuesday = $(£250 - £160) \times \frac{100}{£160} = 56.25\%$

Abstract Reasoning – AR1

Rules
Set A
There are two circles each with two tangents. Other shapes are irrelevant.

Set B
There is one circle with two lines transecting it. Other shapes are irrelevant.

AR1-1 Correct answer: Neither
Only one circle has two tangents so not A, one circle only has one line transecting it so not B. Therefore neither.

AR1-2 Correct answer: Neither
Two circles but only with one tangent each so not A, one circle only has one line transecting it so not B. Therefore neither.

AR1-3 Correct answer: Neither
One circle with one tangent so not A, one circle only has one line transecting it so not B. Therefore neither.

AR1-4 Correct answer: A
Two circles with two tangents so A.

AR1-5 Correct answer: A
Two circles with two tangents so A.

AR1-6 Correct answer: A
Two circles with two tangents so A.

AR1-7 Correct answer: B
One circle with two lines transecting it so B

AR1-8 Correct answer: B
One circle with two lines transecting it so B

AR1-9 Correct answer: B
One circle with two lines transecting it so B

AR1-10 Correct answer: A
Two circles with two tangents to A.

Abstract Reasoning – AR2

Rules
Set A
There are 2 pairs of shapes.

If the shapes are unshaded then the pairs are in an ×. If one pair is shaded then the pairs are in a +

Set B
There are 2 pairs of shapes.

If the shapes are all shaded then the pairs are in a +. If one pair is shaded then the pairs are in an ×
AR2-1  Correct answer: A
2 pairs of shapes, all unshaded, in an ×

AR2-2  Correct answer: N
2 pairs of shapes, all unshaded, in a +

AR2-3  Correct answer: B
2 pairs of shapes, one pair shaded, in an ×

AR2-4  Correct answer: A
2 pairs of shapes, one pair shaded, in a +

AR2-5  Correct answer: B
2 pairs of shapes, both pairs shaded, in a +

AR2-6  Correct answer: N
2 pairs of shapes, both pairs shaded, in an ×

AR2-7  Correct answer: B
2 pairs of shapes, one pair shaded, in an ×

AR2-8  Correct answer: N
2 pairs of shapes - but one pair shaded on non opposite arms of the ×

Abstract Reasoning – AR3

Rules
Set A
Total number of spots is an ODD number, and larger number of spots is above.

Set B
Total number of spots is an EVEN number, and larger number of spots is below.

AR3-1  Correct answer: A
A is correct. Total number of spots = 3. Larger number of spots (2) is above.

AR3-2  Correct answer: C
C is correct. Total number of spots = 13. Larger number of spots (7) is above.

AR3-3  Correct answer: B
B is correct. Total number of spots = 9. Larger number of spots (5) is above.

AR3-4  Correct answer: A
A is correct. Total number of spots = 10. Larger number of spots (7) is above.

AR3-5  Correct Answer: D
D is correct. Total number of spots = 12. Larger number of spots (8) is below.

AR3-6  Correct answer: C
C is correct. Total number of spots = 12. Larger number of spots (7) is below.

Abstract Reasoning – AR4

Rules
Set A Rule
Regardless of the nature of the shapes themselves there must be an equal number of black and shaded shapes but the combined total is always at least one more than the total number of white shapes.

Set B Rule
Regardless of the nature of the shapes themselves there must be an equal number of black and white shapes but the combined total is always at least one fewer than the total number of shaded shapes.

AR4-1  Answer Neither
More black shapes than either white or shaded so cannot be either.

AR4-2  Answer A
One black and one white but only one shaded so cannot satisfy B. One shaded and one black (≠ 2 shapes) which is one more than the white shape so must be A.
AR4-3  Answer B
2 black and 2 white (= 4 shapes) and 5 shaded shapes so must be B.

AR4-4  Answer A
Equal number of black and shaded (=4) but only 1 white so must be A.

AR4-5  Answer B
2 black and 2 white (= 4) and 5 shaded so must be B.

Abstract Reasoning - AR5
Correct answer: D

The shading of the column has the sequence: black, shaded, white; white, black, shaded; shaded, white, black and then repeats. The shading of the L shape from the top has the sequence: shaded, cross, diagonal cross, white. In each square, the box at the end of the L shape moves to the top box and the shading sequence continues.

So, the next square should have the column shading as white, black, shaded. The L shape should be in the order of shaded, cross, diagonal cross, white.

Abstract Reasoning - AR6
Correct answer: D

The single shape changes to the opposite side of the box (top to bottom) and changes to the small shape that is inside another shape (square to circle). The two shapes attached to the lines swap from left to right.

So, the square at the bottom should move to the top and become a circle. The two kite shapes should swap, with the circle inside the kite being on the left.

Situational Judgement - SJ1
SJ1-1  Correct answer: C
This response isn’t the most appropriate – it shows a lack of insight by Sehn about his understanding of the placement, and offers no solution to the problem. This course of action does not have severe consequences.

SJ1-2  Correct answer: B
Although this is an appropriate course of action, it does not deal with the fact that Sehn is still being asked to carry out personal tasks.

SJ1-3  Correct answer: A
This is the most appropriate course of action, given that Margaret was unlikely to have assigned Sehn to the placement. The academic tutor has overall responsibility for work-based placements and, as the administrator, they should be made aware of the problem.

Situational Judgement - SJ2
SJ2-1  Correct answer: A
This is a sensitive issue, but one that must be corrected at the first opportunity. To correct Dr Mitchell immediately in front of the patient may serve to undermine their trust in his professional skills. Waiting until the patient has left (assuming no treatment is due to be carried out, or drugs prescribed) is the best course of action. Dr Mitchell will then need to re-confirm with the patient at the next available opportunity.

SJ2-2  Correct answer: D
This is an inappropriate course of action that is not consistent with open and honest practice. Altering notes in this way is ground for gross professional misconduct.
SJ2-3  Correct answer: B
This is a reasonable course of action, and may serve to clarify the patient’s response. However, it may also affect the patient/doctor relationship and so waiting to discuss it with Dr Mitchell afterwards is preferable.

SJ2-4  Correct answer: D
This is an inappropriate course of action. Without seeking further clarification from Dr Mitchell, Gemma is not making an informed judgement, and this may be detrimental to the doctor/patient relationship.

Situational Judgement - SJ3
SJ3-1  Correct answer: C
This option is inappropriate – it discredits Jerome’s observation. This course of action does not have severe consequences.

SJ3-2  Correct answer: B
This is an appropriate course of action, although Rio, as the group leader, should be managing the situation.

SJ3-3  Correct answer: C
This option is inappropriate, as Rio should be managing the situation and this matter does not, at this stage, involve the academic tutor. No attempt has been made at resolution. This course of action does not have severe consequences.

SJ3-4  Correct answer: A
This would be entirely appropriate, in order to gather a consensus opinion about Elizabeth’s behaviour. Part of working as a team is the ability to share concerns.

SJ3-5  Correct answer: A
This would also be entirely appropriate, as the concern should be raised with all individuals concerned. There should be opportunity for those individuals to defend any such allegations and to improve performance, where necessary. These options will result in local resolution before the matter needs to be taken further.

Situational Judgement - SJ4
SJ4-1  Correct answer: A
Assuming that the student is able to contact her supervisor to re-arrange, the importance of the meeting is very worthy of consideration. This could be a meeting about compromised patient care, for example.

SJ4-2  Correct answer: A
In order to act professionally, the student should ensure open and timely communication with her supervisor. To not consider whether or not she can contact the supervisor to re-arrange would be considered poor practice.

SJ4-3  Correct answer: A
It may be that there is no need to re-arrange her pre-existing meeting if clinical availability is likely to present itself again. This is about forward planning, time-management and maintaining existing commitments.

SJ4-4  Correct answer: B
The student must accept responsibility for developing her own professional development. Given that she has already identified that this session would be of value to her learning and development, the opinion of the supervisor becomes less (but still) important.
Situational Judgement - SJ5

**SJ5-1** Correct answer: D
Although there may be apparent consequences for raising an issue with the consultant, the overriding consideration should be that of the patient. Assessments should be marked professionally and objectively – this is not an important consideration.

**SJ5-2** Correct answer: A
The patient's safety and wellbeing should be the main concern at all times.

**SJ5-3** Correct answer: B
This may be true, and may be important when deciding how to respond. However, it is based on an assumption and so is not a very important consideration.

**SJ5-4** Correct answer: B
This may be true and so it is important to take it into account, however, as Cameron has received a direct complaint from a patient, this should be followed up regardless of who can support or refute it.

Situational Judgement - SJ6

**SJ6-1** Correct answer: B
The General Medical Council requires students to work “…within the limits of their competence, training and status as medical students.” A medical student is not qualified to discuss the possible outcomes of the patient’s blood test nor what the future may hold for the patient. However, it is correct for a student to explain his role to the patient, so that the patient understands the student’s position. In this situation, where a patient is concerned or worried about their health, the medical student should acknowledge the patient’s concerns and advise the patient to address their concerns with a more appropriate member of staff.

**SJ6-2** Correct answer: A
On any occasion that a patient is concerned or worried about their health, this should be acknowledged by any person involved with their care. Although the medical student is not yet qualified to address the patient’s concerns directly, by acknowledging them and giving the patient the option to raise them with the consultant, the student is assuring the patient that he is being listened to and that his concerns are being taken seriously.

**SJ6-3** Correct answer: B
The consultant has overall responsibility for the care of the patient and in this case would be the most appropriate member of staff to address the patient’s concerns directly. However, ideally the student should also indicate that they empathise with the patient about their concerns.

**SJ6-4** Correct answer: D
The General Medical Council requires students to work “…within the limits of their competence, training and status as medical students.” A medical student is not qualified to discuss the possible outcomes of the patient’s blood test nor what the future may hold for the patient. By telling the patient not to worry, the student is inappropriately (and perhaps falsely) reassuring the patient. A student should acknowledge the patient’s concern and indicate that they empathise with the patient about their concerns.
Step-by-step guide

You may find this step-by-step guide helpful in planning for your test.

Check

☐ Which universities require the test and their entry criteria
☐ The location of your nearest test centres
☐ If you require Access Arrangements or any other accommodations, check to see whether we can meet these and submit an online application
☐ Whether you are eligible for a bursary and then apply before the 2020 bursary deadline
☐ That you have one of the correct forms of ID required to sit your test, and that it is signed and current

Register

☐ You should register for the test during the registration window advertised on our website

Book

☐ You need to book your test before the 2020 online booking deadline
☐ After this deadline you will need to contact Pearson VUE Customer Services by phone in order to book a test before the final booking deadline as advised on our website. We recommend you book as early as possible

Prepare

☐ Use the UCAT Preparation Plan in this guide to help you prepare for the test
☐ Use the Practice Tests and Resources on the UCAT website for definitive information and advice about the test plus hundreds of official practice questions
☐ Familiarise yourself with the onscreen format so you know how to use the mouse, answer questions and move through the test. Practise using the onscreen calculator and get used to the timings of each section
☐ Find out what to expect at a Pearson VUE Test Centre
☐ Read the statement on unprofessional behaviour and our Professional Examination Rules
☐ Familiarise yourself with what to do if something goes wrong either before or during your test
Test
- Ensure you take the correct, original, signed, unexpired ID with you to the test centre
- Make sure you know where your test centre is and allow yourself plenty of time for arrival
- Don’t forget you can ask for earplugs and headphones if you think you may need them during the test
- Take your test during the 2020 test window – no exceptions!
- In the unlikely event of any issues during your test, you must report this to the test centre immediately and obtain an incident number

Research
- Check the information provided on consortium member websites to see how each university uses the test in their admissions process before you submit your UCAS application
- Interim score statistics will be issued mid way through the test cycle and final test statistics a few days after testing ends. A report on mean scores from previous test cycles is available now
- Use all of this information to make an informed decision about where to apply

Apply
- Don’t forget your UCAS application should be submitted by 15 October 2020 - or as advised by UCAS

Relax
- We will communicate your test result directly to your chosen universities, you do not need to take any action

The UCAT is not something to be feared, it’s just one more step in achieving your goal of getting into medical / dental school. The key is preparation - make full use of the resources available on the UCAT website and otherwise.

One last bit of advice, don’t fret about the test and postpone it, get it over and done with as early as possible.”

Amir-Seena, 96th percentile
My UCAT Preparation Plan

**TOP TIP**
Our highest scoring candidates said they spent 25-30 hours preparing for the test and that it’s better to build up your preparation by doing just an hour or so each day.

**TOP TIP**
Get familiar with the ‘Flag’ and ‘Review’ functions within the test which can help you manage your time and practise using the on-screen calculator too.

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**+6 weeks to go**
Visit the UCAT website or read our Official Guide to find out the key information you need to know.

**4 weeks to go**
Use the Question Tutorial to guide you through each subtest and learn strategies on how to approach and answer questions.

Use the Tour Tutorial to understand the format of the UCAT and learn the functions of the computer-based test.

Use our FREE question banks to practise hundreds of example questions.

**TOP TIP**
Challenge yourself by reading newspapers or articles to improve your speed reading and critical reasoning skills which will help with Verbal Reasoning.
My UCAT Preparation Plan

Consider creating a mnemonic to help you remember some of the key things to look for in Abstract Reasoning (e.g. shape, number, position, symmetry, reflection).

Browser the GMC’s Good Medical Practice to inform your responses in the Situational Judgement Test.

3 weeks to go

- Check out advice from high scoring candidates on our website and on the Official UCAT YouTube channel.
- Take Practice Test A on the UCAT website; these tests closely mimic the test experience and questions are of equivalent standard to the actual test.
- Download the Official UCAT App to practise some additional questions in your spare time.
- Take the remaining Practice Tests – step up your practice by sitting the timed versions to improve your speed as you get closer to sitting your test.
- Make sure you know where your test centre is (print off a map) and ensure you have the correct ID to take with you; otherwise you will not be permitted to test.

TOP TIP

TOP TIP

TOP TIP

TOP TIP

TOP TIP

Brush up your Maths skills (percentages, ratios, fractions, etc.) as this will help with the Decision Making and Quantitative Reasoning sections. Practise your mental arithmetic too as this can save you valuable time.
Feedback

Please let us have any feedback you might have on this publication so we can improve on it for future years.

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