

BMAT (Source: <http://www.admissionstesting.org/for-test-takers/bmat/preparing-for-bmat/practice-papers/>)

Perfect pitch – the ability to identify any note of music without inferring it from a reference note – is usually found to be a characteristic only of people who were taught music before the age of 6. So teaching music to children under the age of 6 should become a priority in primary schools. This could mean that in the future the majority of the population would have perfect pitch.

Which one of the following describes a flaw in the above argument?

- A It assumes that adults could acquire perfect pitch if they were taught music.
- B It ignores the possibility that other factors may be necessary for acquiring perfect pitch.
- C It assumes that having perfect pitch is necessary for success as a musician.
- D It ignores the possibility that children under the age of 6 may not enjoy learning music.

One of the games at a charity fund raising event was 'Guess How Many Jelly Beans are in the Jar'. Prizes were awarded according to how close the guesses were to the exact number. The results of the game are shown below in the table.

| Position | Guess | Winner |
|----------|-------|--------|
| 1st | 125 | Jessie |
| 2nd | 140 | Saul |
| 3rd | 142 | Imran |
| 4th | 121 | Marie |
| 5th | 120 | Hank |

How many jelly beans were in the jar?

- A 129
- B 130
- C 131
- D 132
- E 133

UCAT (source: <https://www.ucat.ac.uk/prepare/practice-tests/>)

Not all the people present at the literature festival were poets but all the poets at the literature festival were authors and some poets were not writers.

Place 'Yes' if the conclusion does follow. Place 'No' if the conclusion does not follow.

| | | |
|--|--------------------------|---|
| Some writers at the literature festival were authors. | <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Some authors at the literature festival were both poets and writers. | <input type="checkbox"/> | |
| All the authors at the literature festival were either poets or writers. | <input type="checkbox"/> | |
| Not all authors at the literature festival who were poets were writers. | <input type="checkbox"/> | |
| All the writers at the literature festival who were authors were also poets. | <input type="checkbox"/> | |

MAT (source: <https://www.maths.ox.ac.uk/study-here/undergraduate-study/maths-admissions-test>)

Three people called Alf, Beth, and Gemma, sit together in the same room.

One of them always tells the truth.

One of them always tells a lie.

The other one tells truth or lies at random.

In each of the following situations, your task is determine how each person acts.

(i) Suppose that Alf says "I always tell lies" and Beth says "Yes, that's true, Alf always tells lies".

Who always tells the truth? Who always lies? Briefly explain your answer.

(ii) Suppose instead that Gemma says "Beth always tells the truth" and Beth says "That's wrong."

Who always tells the truth? Who always lies? Briefly explain your answer.

STEP (Source: <http://www.admissionstesting.org/for-test-takers/step/preparing-for-step/>)

Four players A , B , C and D play a coin-tossing game with a fair coin. Each player chooses a sequence of heads and tails, as follows:

Player A: HHT; Player B: THH; Player C: TTH; Player D: HTT.

The coin is then tossed until one of these sequences occurs, in which case the corresponding player is the winner.

(i) Show that, if only A and B play, then A has a probability of $\frac{1}{4}$ of winning.

LNAT (Source: <https://lnat.ac.uk/how-to-prepare/practice-test/>)

Section A

Google is the dominant search engine on the internet, it uses a formula designed to place the most relevant content at the top of its listings. But a multimillion-pound industry has grown up concerned with manipulating Google rankings through a process called “search engine optimisation”.

2. What is suggested by the last paragraph?
 - (a) There is too much information on Google.
 - (b) Students can't distinguish between good and bad content.
 - (c) Google has too much power.
 - (d) The material isn't always accurate.
 - (e) The rankings may not be reliable.

Section B

Answer ONE of the following questions.

Your answer should be a reasoned and substantiated argument which justifies your response to the question.

1. In what circumstances should abortion be permitted and why?
2. Would you agree that travel and tourism exploit poorer nations and benefit only the richer ones?
3. The Olympic games, today, are less a test of personal athleticism and more a measure of national investment and authority. Do you agree?
4. Wearing a burkha in Western countries is just as offensive as wearing a bikini in Arab countries. Do you agree?
5. 'Women now have the chance to achieve anything they want.' How do you respond to this statement?

Thinking Skills Assessment (Source: <http://www.admissionstesting.org/for-test-takers/thinking-skills-assessment/tsa-oxford/preparing-for-tsa-oxford/>)

Section 1

Two neighbours work for the same company and share the journey to work, driving alternately in strict rotation. They work Monday to Friday each week and every other Saturday. (They always work the same Saturdays as each other.)

What is the **maximum** number of days either of them has to drive in a calendar month?

- A 11
- B 12
- C 13
- D 14
- E 15

Section 2

YOU MUST ANSWER ONLY ONE OF THE FOLLOWING QUESTIONS

1. Are 'drone strikes' morally different to military campaigns fought on the ground?

2. Is reducing inequality always a good thing?

3. Is a referendum a good way to decide a major question facing a country?

4. Can we learn about intelligence by studying how humans and other animals learn?