

Deductive Reasoning

Free Test

Solutions Booklet

Instructions

This deductive test comprises **22 questions** and you will have **25 minutes** in which to correctly answer as many as you can.

In each question you will be presented with a set of premises. These may be verbal, numerical, abstract or a combination. You will need to use problem solving and deductive reasoning skills to draw logical conclusions from these premises.

Read thoroughly the passage of information and the question you are being asked and select the correct answer from the various options.

You will have to work quickly and accurately to perform well in this test. If you don't know the answer to a question, leave it and come back to it if you have time.

There is only one correct answer per question.

Base your answers only on the information given in the passage.

Try to find a time and place where you will not be interrupted during the test. **The test will start on the next page.**

The Large Silver Clock states the time as 15:50.
The Small Silver Clock displays the same time as the Gold Clock.
The Bronze Clock is small in size.
The Gold Clock is ten minutes behind the Large Silver Clock.
The Bronze Clock is five minutes after of the Small Silver Clock.

Q1 The Small Silver Clock displays the time as 16:00.

- a. True
- b. False**
- c. Insufficient Information

Answer: False

Explanation:

- a. Line 2 states the small silver clock is the same time as the gold clock.
- b. Line 4 states that the gold clock is ten minutes behind the large silver clock.
- c. Line 1 states that the large silver clock says the time is 15:50. Therefore, the small silver clock should display 15:40, not 16:00. Thus, this statement is false.

The Large Silver Clock states the time as 15:50.
The Small Silver Clock displays the same time as the Gold Clock.
The Bronze Clock is small in size.
The Gold Clock is ten minutes behind the Large Silver Clock.
The Bronze Clock is five minutes after of the Small Silver Clock.

Q2 The Gold Clock displays the time as 15:40.

- a. **True**
- b. False
- c. Insufficient Information

Answer: True

Explanation:

- a. Line 1 states that the large silver clock state the time as 15:50. Line 4 states that the gold clock is ten minutes behind the large silver clock, thus 15:40.

The Large Silver Clock states the time as 15:50.
The Small Silver Clock displays the same time as the Gold Clock.
The Bronze Clock is small in size.
The Gold Clock is ten minutes behind the Large Silver Clock.
The Bronze Clock is five minutes after of the Small Silver Clock.

Q3 The Bronze Clock is the same size as the Gold Clock.

- a. True
- b. False
- c. **Insufficient Information**

Answer: Insufficient Information

Explanation:

- a. Line 3 states that the bronze clock is small in size.
- b. Even though line 1 talks of a large silver clock, line 2 talks of a small silver clock. The ambiguity of the statement, referring simply to a silver clock, means we cannot assess whether it is the large or the small one. Therefore, this is insufficient information.

The Large Silver Clock states the time as 15:50.
The Small Silver Clock displays the same time as the Gold Clock.
The Bronze Clock is small in size.
The Gold Clock is ten minutes behind the Large Silver Clock.
The Bronze Clock is five minutes after of the Small Silver Clock.

Q4 The Gold Clock is the same time as the Bronze Clock.

- a. True
- b. False**
- c. Insufficient Information

Answer: False

Explanation:

- a. Line 6 states that the bronze clock is five minutes after the small silver clock.
- b. Line 2 states that the small silver clock is the same time as the gold clock.
- c. Line 4 states that the gold clock is ten minutes behind the large silver clock, which line 1 states is 15:50. Therefore, the gold clock is 15:40 but the bronze is 15:45. Thus, the times are not the same and this statement is false.

Painter Sales

Name:	Kim Ramirez				
Favourite Genre:	Abstract				
Painting Author:	Remix				
	Painting I	Painting II	Painting III	Painting IV	Painting V
Title:	Morphism	Desecrate	Remix	Instant	Fugue
Genre:	Abstract	Classical	Abstract	Modern	Classical
Price:	£10,000	£7,000	£6,000	£4,500	£17,500

Q5 The paintings in the museum are to be filed, by genre, then title, in alphabetical order. Which painting would be positioned fourth?

- a. Painting I
- b. Painting II
- c. Painting III
- d. Painting IV
- e. **Painting V**

Answer: Painting V

Explanation:

- a. We have three different genre types: Abstract, Classical and Modern. Each title in their genre is then alphabetised. Therefore, the Abstract titles, Morphism and Remix are alphabetised as such.
- b. Following this, the Classical titles are alphabetised Desecrate and Fugue. Therefore, we can note the order is as follows: Morphism, Remix, Desecrate, Fugue and Instant. Thus, the painting in the fourth position is Painting V.

Painter Sales

Name:	Kim Ramirez				
Favourite Genre:	Abstract				
Painting Author:	Remix				
	Painting I	Painting II	Painting III	Painting IV	Painting V
Title:	Morphism	Desecrate	Remix	Instant	Fugue
Genre:	Abstract	Classical	Abstract	Modern	Classical
Price:	£10,000	£7,000	£6,000	£4,500	£17,500

Q6 Kim Ramirez sold her painting and then purchased the Instant painting. How much money does she have left over?

- a. £500
- b. £1,000
- c. £1,500**
- d. £2,000
- e. £2,500

Answer: £1,500

Explanation:

- a. We can see that Kim Ramirez's painting is Remix, priced at £6,000. Therefore, she makes that money when sold.
- b. She then purchases Instant, priced as £4,500. $6,000 - 4,500 = £1,500$.

Ailment C lasts twice as long as Ailment D
Taking Medicine A halves the duration of Ailment B
Medicine C reduces the duration of Ailment D by five days
Ailment A and B last for eight days
Taking Medicine B halves the duration of Ailment A and C
Ailment B lasts half the duration as Ailment D

Q7 Taking Medicine B will reduce the duration of Ailment C by twelve days.

- a. True
- b. False**
- c. Insufficient Information

Answer: False

Explanation:

- a. Line 1 states that Ailment C lasts twice as long as Ailment D, which line 6 states is twice as long as Ailment B. Line 4 states that Ailment B lasts for 8 days
- b. Therefore, Ailment C lasts for $8 \times 2 \times 2 = 32$ days.
- c. Line 5 states that Medicine B will half the duration of Ailment C. Thus, $32 / 2 = 16$.
- d. Therefore, Medicine B will reduce the ailment duration by 16 days, not 12 and as such this statement is false.

Ailment C lasts twice as long as Ailment D
Taking Medicine A halves the duration of Ailment B
Medicine C reduces the duration of Ailment D by five days
Ailment A and B last for eight days
Taking Medicine B halves the duration of Ailment A and C
Ailment B lasts half the duration as Ailment D

Q8 Ailment D lasts for 18 days.

- a. True
- b. False**
- c. Insufficient Information

Answer: True

Explanation:

- a. Line 4 states that Ailment B lasts for eight days. Line 6 states that Ailment D lasts for twice as long as Ailment B, thus sixteen days. Therefore, this statement is false.

Ailment C lasts twice as long as Ailment D
Taking Medicine A halves the duration of Ailment B
Medicine C reduces the duration of Ailment D by five days
Ailment A and B last for eight days
Taking Medicine B halves the duration of Ailment A and C
Ailment B lasts half the duration as Ailment D

Q9 Taking Medicine C will reduce the duration of Ailment D to eleven days.

- a. True
- b. False
- c. Insufficient Information

Answer: Insufficient Information

Explanation:

- a. Line 4 states that Ailment B lasts for eight days. Line 6 states that Ailment D lasts for twice as long as Ailment B, thus sixteen days.
- b. Line 3 states that by taking Medicine C, the duration will be reduced by five days. Sixteen minus five is eleven. Therefore, this statement is true.

Ailment C lasts twice as long as Ailment D
Taking Medicine A halves the duration of Ailment B
Medicine C reduces the duration of Ailment D by five days
Ailment A and B last for eight days
Taking Medicine B halves the duration of Ailment A and C
Ailment B lasts half the duration as Ailment D

Q10 Taking appropriate Medicine, Ailment D lasts longer than Ailment A.

- a. **True**
- b. False
- c. Insufficient Information

Answer: True

Explanation:

- a. Line 4 states that Ailment A lasts for eight days. Line 6 states that Ailment D lasts for twice as long as Ailment B, thus sixteen days.
- b. Line 3 states that by taking Medicine C, the duration will be reduced by five days. Therefore, it'll be eleven days. Line 5 states that Medicine B will half the duration of Ailment A; $8 / 2 = 4$.

Multilateral development banks (MDBs) are international financial institutions established by a group of countries that provide financial services and professional advice in order to further economic development. MDBs generally receive donations from developed nations, often labelled foreign aid. They lend money to developing nations in the form of very-long term loans below the market rate of interest and through grants.

Q11 Taking each line in the above argument as true, which statement must be demonstrably false?

- a. Developing nations will eventually pay back their loans.
- b. Loans from MDBs are below the market rate of interest.
- c. MDBs lend money as typically short-term loans.**
- d. MDBs are established as international ventures.
- e. An aim of MDBs is to provide economic development.

Answer: MDBs lend money as typically short-term loans.

Explanation:

- a. Line 3 states that MDBs lend money at 'very-long term loans'. Therefore, this statement is demonstrably false.

-- End of Test --