

Sample Test

THE ULTIMATE FOUNDATION LEVEL REASONING BOOK

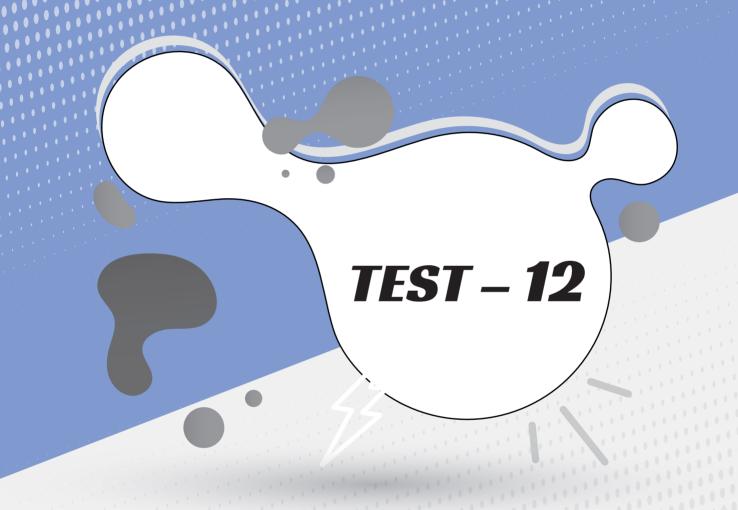
by Murat Boncuk

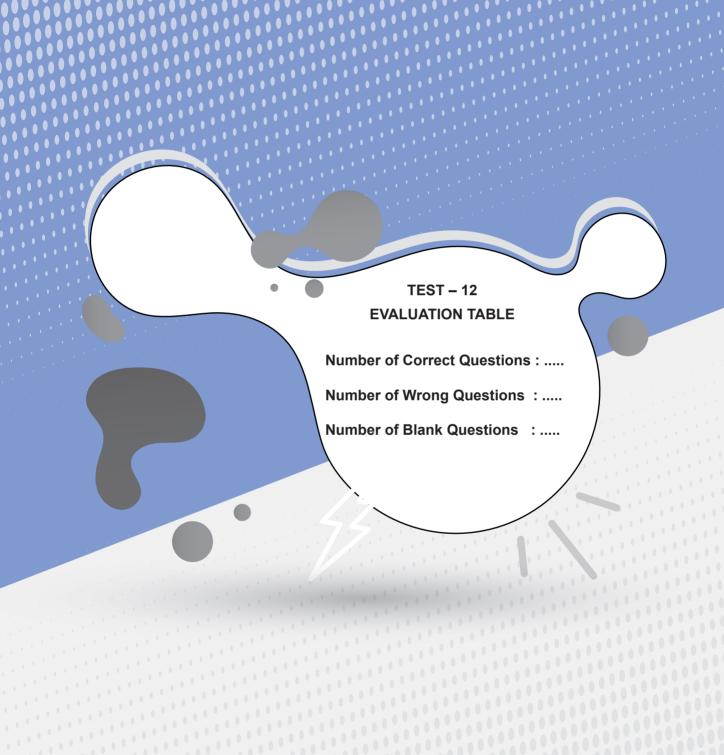
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Design by Yasemin Aytekin







1. Below is information about some of the painting movements in art history.

Baroque: Shadows are created using strong light in a narrow area. The human body is detailed. Depth perception is provided with moving images.

Realism: Generally, workers, peasants and the realities of daily life are reflected. The realities of life are told just like in a photograph.

Cubism: Objects are seen geometrically. Objects are broken down, folded out and shown in different directions.

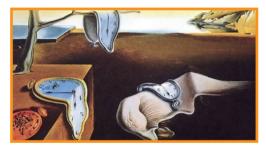
Surrealism: It does not show the appearance of the world, but the state of the person in his subconscious and dreams. Reality and the dream world are intertwined.



Guernica, Pablo Picasso **Visual I**



The Night Watch, Rembrandt van Rijn **Visual II**



The Persistence of Memory, Salvador Dali Visual III



The Gleaners, Jean-François Millet **Visual IV**

Accordingly, which of the options given below is the correct painting movement matching used in the paintings shown in Visual I, II, III and IV above?

<u>Visual I</u>	<u>Visual II</u>	Visual III	<u>Visual IV</u>
A) Surrealism	Realism	Baroque	Cubism
B) Realism	Surrealism	Cubism	Baroque
C) Cubism	Baroque	Surrealism	Realism
D) Baroque	Cubism	Realism	Surrealism

The Ultimate Foundation Level Reasoning Book



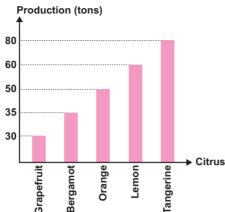
The table below provides information about some calendar types used from past to present.

Calendar	Based on year system	Specifications
12 Animal Calendar	Sun	 A year was calculated as 365 days and each year was named after an animal. This calendar was used by the Turks, Chinese, Mongols, Indians and Tibetans. It is still used today in some parts of Asia.
Hijri Calendar	Moon	 The year in which Prophet Muhammad migrated (622) is accepted as the beginning. According to this calendar, a year is 354 days.
Jalali calendar	Sun	 It was prepared by an astronomy committee established under the presidency of Omar Khayyam during the reign of Malikshahi (1072 - 1092) in the Great Seljuks, based on the Persian calendar, to be used in financial affairs. Nowruz, celebrated as a spring festival, was accepted as the New Year and 1079 was accepted as the beginning of the Gregorian year.
Rumi Calendar	Sun	 It was used to regulate financial affairs in the Ottoman Empire. In 1839, it began to be used together with the Hijri calendar in all official and financial transactions.
Gregorian Calendar	Sun	 It is the most widely used calendar system today. The birth of Prophet Jesus is considered the starting point. A year is 365 days and 6 hours.

According to the information about these calendar types, which of the following statements is incorrect?

- A) A year of the 12 Animal Calendar is designed to be longer than a year of the Hijri Calendar.
- B) The Hijri Calendar is based on the cycle of the Moon, while the Gregorian Calendar is based on the cycle of the Sun.
- C) Nowruz is accepted as the starting point of the Gregorian Calendar.
- D) The Jalali Calendar and the Rumi Calendar were used to organize financial affairs.

3. The following bar chart shows the quantities of citrus varieties produced in a citrus grove in 2024.



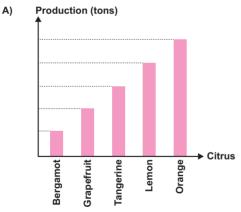
The following is known about the order of magnitude of the citrus varieties produced in this garden in 2024, according to their status in 2023:

- Lemon production amount maintained its place in the rankings in 2024.
- Bergamot production amount exceeded grapefruit production amount and increased by one place in 2024.
- In 2024, oranges and tangerines changed places in the order of production amounts.

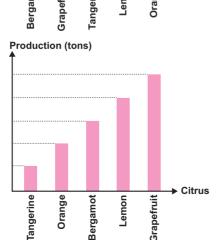
Accordingly, which of the following could be the graph showing the amount of citrus varieties obtained in this garden in 2023?

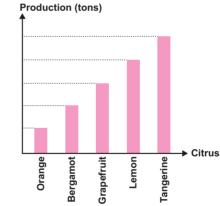
B)

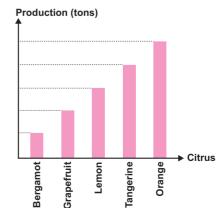
D)



C)



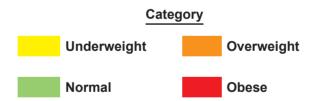




TEST -12-

4. The parameter that shows whether the body weight (kg) of an adult individual is normal according to his height (meters) is called body mass index. The table below shows which category of body mass index the individual corresponds to according to the height - weight relationship.

		Height (cm)													
		135	140	145	150	155	160	165	170	175	180	185	190	195	200
	110														
	105														
	100														
	95														
	90														
	85														
(g	80														
± ±	75														
Weight (kg)	70														
×	65														
	60														
	55														
	50														
	45														
	40														
	35														

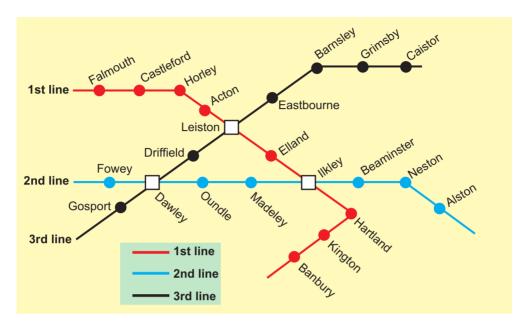


According to the body mass index table, which of the following statements is incorrect?

- A) An individual with a height of 185 cm and a weight of 60 kg is in the underweight category.
- B) An individual with a weight of 90 kg and a height between 190 and 200 cm is in the normal category.
- C) An individual with a height of 175 cm and a weight of 80 90 kg is in the overweight category.
- D) An individual with a height of 180 cm and a weight of 90 kg and above is in the obese category.

TEST -12-

5. The diagram below shows the metro transportation network of a city, which consists of 3 lines and can be traveled in round-trip fashion.



Which of the following statements about journeys to be made by creating the shortest distance through this metro transportation network is incorrect?

- A) One transfer must be made to reach from Falmouth stop to Gosport stop.
- B) Two transfers must be made to reach Eastbourne stop from Fowey stop.
- C) To reach Beaminster stop from Kington stop, a transfer must be made at Ilkley stop.
- D) To reach Grimsby stop from Horley stop, a transfer must be made from Leiston stop.



6. Environmental pollution is the intense mixing of foreign substances into the air, water and soil, which negatively affects the living and non-living elements of the environment, causes structural damage and deteriorates their qualities. Below, information is provided about the causes of environmental pollution types and what needs to be done to prevent them.

Environmental pollution	Causes	What needs to be done
Air pollution	 Industrial facilities Use of poor quality fuel Exhaust gases Failure to burn heaters such as stoves or radiators under appropriate conditions. 	 Green and forested areas, which are our oxygen source, should be protected and increased. Natural gas use should be encouraged. Filters should be installed on industrial chimneys. The use of public transportation instead of personal vehicles should be expanded.
Water Pollution	 Untreated sewage waste Domestic and industrial waste Non-recyclable garbage Chemical fertilizers applied to land in agricultural activities 	 Sewage water should not be released into water without treatment. Purification facilities should be established to clean factory and industrial waste. Recyclable products should be preferred. Pesticides and artificial fertilizers should be prevented from mixing with water.
Soil Pollution	 Haphazard dumping of garbage Waste from residential areas Industrial waste Pesticides and chemical fertilizers 	 Our green areas and forests should be increased. Domestic and industrial waste should be collected, stored and disposed of in a way that will not harm the environment. Recycling and use of products should be ensured. Misuse of artificial fertilizers and pesticides in agriculture should be avoided.
Noise Pollution	 Traffic intensity Loud noises from televisions and musical instruments Machines in industrial areas Untimely maintenance and repairs 	 Horns should not be honked unnecessarily. Buildings should be constructed to be soundproofed. Soundproofing should be done to prevent noise from escaping from workplaces, cafes or noisy environments.
Light Pollution	 Mistakes made in the lighting system of roads, parks, gardens and forest areas Visual lighting in squares Exterior lighting Billboards 	 More lighting systems than necessary should not be installed in our homes and streets. Lights should only be turned on when needed. Lighting devices suitable for the size and conditions of the environment should be used. Motion sensors should be used for outdoor lights.

According to the information given above regarding the causes of environmental pollution types and what needs to be done to prevent them, which of the following statements is incorrect?

- A) Intensive vehicle traffic causes air and noise pollution.
- B) Chemical fertilizers cause water and soil pollution.
- C) Increasing the use of public transportation reduces air pollution.
- D) Installing filters on industrial chimneys helps reduce water pollution.

7. In the following tables: Departure and arrival locations of flights of K, L, M and N airline companies within a day and departure and arrival times of these flights are given.

K Airline Company					
<u>Airport</u> <u>Time</u>					
<u>Departure</u>	<u>Arrival</u>	<u>Departure</u>	<u>Arrival</u>		
Newcastle	Southampton	09.15	10.25		
Norwich	Manchester	08.50	11.05		
London	Newcastle	09.40	10.45		

L Airline Company					
Air	port	<u>Time</u>			
<u>Departure</u>	<u>Arrival</u>	<u>Departure</u>	<u>Arrival</u>		
Brighton	Newcastle	09.50	11.20		
London	Southampton	11.10	12.15		
Norwich	Newcastle	08.45	10.40		

M Airline Company						
<u>Airport</u> <u>Time</u>						
<u>Departure</u>	<u>Arrival</u>	<u>Departure</u>	<u>Arrival</u>			
London	Manchester	08.25	09.45			
Norwich	London	08.40	10.05			
Manchester	Southampton	10.30	11.10			

N Airline Company						
<u>Airport</u> <u>Time</u>						
<u>Departure</u>	<u>Arrival</u>	<u>Departure</u>	<u>Arrival</u>			
Newcastle	Southampton	10.30	11.40			
Norwich	Brighton	07.15	08.25			
Manchester	London	09.05	10.25			

If a person wants to go from Norwich to Southampton on the same day, how many flights are required and what time does one arrive in Southampton?

	Number of flights	Time of arrival
A)	2	10.25
B)	2	11.10
C)	2	12.15
D)	3	11.40



8. Expressing verbally the processes to be followed in solving a problem in a logical order is called an algorithm, and expressing these solution processes with figures and symbols is called a flow diagram. The table below shows the most commonly used diagrams in the flow diagram and their meanings.

Diagram	Meaning Start / Stop: Shows the location where the process starts or ends.	Diagram	Meaning Comparison and Decision: Shows the decision options to be taken according to the actual event.
	Event / Action: Indicates the event or action occurring at the moment.ir.	$\Rightarrow \uparrow \downarrow$	Flow Direction: Shows the flow direction between shapes in the diagram.

Below is the algorithm for what a student does when who alarm goes off in the morning to get to school on time.

Step 1: Start

Step 2: Alarm rang

Step 3: Ready to get up?

Step 4: a. If you are not ready, continue to step 5

b. If you are ready, go to step 9

Step 5: Are you late?

Step 6: a. If you are not late, continue to step 7

b. If you are late, go to step 9

Step 7: Delay alarm for 5 minutes

Step 8: Return to step 2

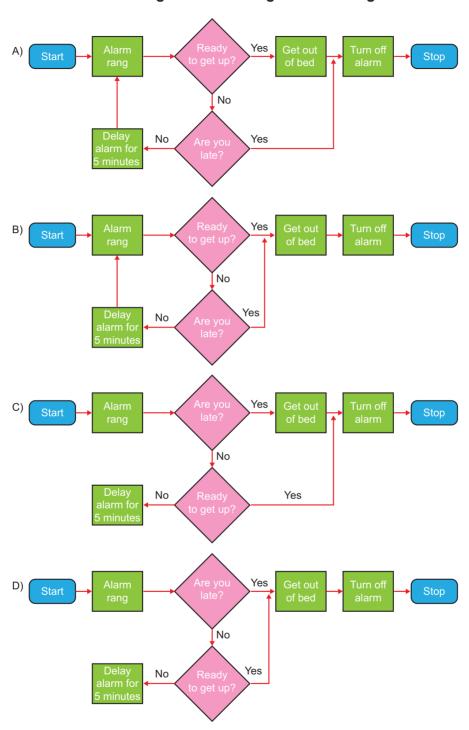
Step 9: Get out of bed

Step 10: Turn off alarm

Step 11: Stop



Which of the following is the flow diagram of this algorithm?





Solutions of Test 12

- 1. The painting in Visual I consists of geometric objects, which is cubism.
 - The painting in Visual II is baroque because it contains shadows through strong light and the human body is depicted in detail.
 - The painting in Visual III is surrealist because it depicts the subconscious and dream state instead of a real-world image.
 - The painting in Visual IV is realist because it depicts the daily life of the villagers.

Answer C

2. The birth of Prophet Jesus is accepted as the starting point of the Gregorian Calendar. Accordingly, option C is incorrect.

Answer C

- 3. Since the lemon production amount maintains its place in the ranking in 2024, lemon is in fourth place.
 - Bergamot, which was in second place in 2024, will be in first place in 2023, and grapefruit will be in second place, since grapefruit moved up one place to this place.
 - In 2024, orange is in the third place and tangerine is in the fifth place, and since it has changed places compared to 2023, tangerine is in the third place and orange is in the fifth place in 2023.

Accordingly, the graph showing the quantities of citrus varieties in 2023 could be option A.

Answer A

4. An individual who is 180 cm tall and weighs 100 kg and above is in the obese category. Accordingly, option D is incorrect.

Answer D

5. To reach Eastbourne stop from Fowey stop, a transfer via Dawley stop is sufficient. Accordingly, option B is incorrect.

Answer B



Installing filters on industrial chimneys helps reduce air pollution. Accordingly, option D is incorrect.

Answer D

7. This person can depart from Norwich to London at 08.40 and arrive at 10.05, catch the flight from London to Southampton at 11.10 and arrive at Southampton at 12.15. Accordingly, at the end of 2 flights, Norwich to Southampton will arrive at 12.15.

Answer C

- **8.** In option A, "Are you late?" The answer "Yes" to the question should be connected to the action "Get out of bed". Accordingly, option A is incorrect.
 - The flow diagram in option B provides the algorithm.
 - In options C and D, the action "Delay alarm for 5 minutes" should be connected to the event "Alarm rang". Accordingly, options C and D are incorrect.

Answer B