SECTION A: NUMERICAL REASONING

1. What is the next term of the below pattern?

2, 8, 26, 80, ?

A) 84
B) 163
C) 242
D) 250
E) 600

2. While visiting a museum in 2024, Deniz examines information about a painting and realizes that 160 times her age corresponds to the year the painting was created. She also notices that the year the painting was brought to the museum coincides with her birth year. In addition, she learns that the painting was 92 years old when it was brought to the museum. Based on this information, how old is Deniz in 2024?

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

3. A player is playing a computer game consisting of 5 different levels, each containing the same number of tasks. When the player starts the third level and completes only 7 tasks—without yet finishing the level—they realize that they have completed half of the entire game. Based on this, how many tasks are there in total in the game?

A) 50
B) 60
C) 70
D) 80
E) 90

4. The sum of 10% less than a number and 40% more than the same number is 460. What is the number?

A) 200
B) 306
C) 328
D) 418
E) 920

5. At 2:00 PM, a person begins their workout with a 1-minute warm-up. In the first round, they run at a high pace for 1 minute, then walk at a high pace for 2 minutes. After that, they switch to a slow-paced walk for 1 minute, followed by another 1 minute of high-paced walking, and finally run at a high pace for 1 more minute. In the second and third rounds, the person follows the same steps but skips the warm-up. At the end of the workout, they do a 1-minute cool-down stretch.
What time will it be when the workout is finished?

A) 14:20
B) 14:25
C) 14:30
D) 14:35
E) 14:40

6. Buğra divided his marbles equally into 4 groups. Tuğra also divided the same number of marbles equally into 3 groups. If the number of marbles in each of Tuğra's groups is 3 more than the number in each of Buğra's groups, how many marbles did Buğra have at the beginning?

A) 12
B) 36
C) 48
D) 60
E) 72

7. When three dice are rolled at the same time, how many different possible sums can be obtained from the numbers on their top faces?

A) 10
B) 12
C) 15
D) 16
E) 18

8. How many hours are there in 14 quarter-hours?

A) 56 hours
B) 48 hours
C) Five and a half hours
D) 4 hours
E) Three and a half hours

9. In a conversation that took place in 2012, 14-year-old Aral said to his 42-year-old aunt: "In year A, your age will be exactly twice my age." According to this, what should the value of A be?

A) 2026
B) 2040
C) 2068
D) 2019
E) 2056

10. The arithmetic mean of three numbers is 20. The largest number is 15 more than the arithmetic mean of the other two numbers. What is the value of the largest number?

A) 35
B) 30
C) 25
D) 20
E) 15

SECTION B: VERBAL REASONING

11. Four of the following belong to a group. Which one does not belong to this group?

A) Elma
B) Portakal
C) Zeytin
D) İncir
E) Havuç

12. A secret code works as follows:

KURNAZ → ZAKUNR
KAYGAN → NAKAGY
SAYDAM → MASADY

According to this coding pattern, what is the coded form of the word KURBAN?

A) NAKUBR
B) NAKBUR
C) NABKRU
D) NABRUK
E) NAKURB

13. Here are some words translated from an artificial language:

kcalbileleydigi= Black maned horse
yergilkenebhav= Grey spotted dog
etihulyutmiyav = White feathered cat

According to this, which of the following could be used in the sense of 'Yellow feathered bird'?

A) kcalbilkenebhav
B) olleyulyutcik
C) kniplkenebcik
D) yergleleycik
E) etihulyutilkeneb

Instructions for Question 14:

The following question has an underlined word followed by five answer choices. Identify which of the following five answers contains the complement or an essential part that is dependent on underlined word.

14. Ocean

A) Sand
B) Island
C) Whale
D) Water
E) Beach

15. Considering the connection between LAMBA and MBNCB, which of the following is DERYA connected to?

A) EFSZB
B) FGTAC
C) EFUBC
D) EGYBD
E) DFYZE

16. Arda, Bora and Cem go jogging together every morning. The following rules apply when they go jogging:

- If Arda does not wear glasses, Bora wears glasses.
- If Bora does not wear glasses, Cem wears glasses.

According to this, if Bora does not wear glasses one morning, which of the following is absolutely true?

A) Only Arda wore glasses.
B) Only Cem wore glasses.
C) Both Arda and Cem wore glasses.
D) Neither Arda nor Cem wore glasses.
E) No definite conclusion can be reached with the information provided.

17. If you rearrange the letters "OGMAN" you would have the name of a/an.

A) City
B) Fruit
C) Country
D) Animal
E) Vehicle

18. An encryption machine operates according to the following conditions.

Conditions:
- **The first letter is not K.**
- **One of the first two letters must be I.**
- **L cannot be the last letter.**

Words:
I. KILI
II. ISLA
III. WARM
IV. SIRL
V. LIMA

Which words are suitable for this machine?

A) Only II
B) II ve III
C) II, III ve V
D) I, II ve V
E) III, IV ve V

19. Considering the connection between TREE and ROOT, BUILDING is connected with which of the following?

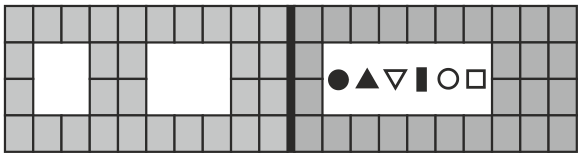
A) Roof
B) Window
C) Wall
D) Foundation
E) Door

20. According to a secret coding, AZLN=BYMM, HIKU=IHLT and BEJF=CDKE. Accordingly, YUMZ is equal to which of the following?

A) ZVRY
B) ZVRA
C) ZTNY
D) VVMY
E) VZMY

SECTION C: VISUAL-SPATIAL REASONING

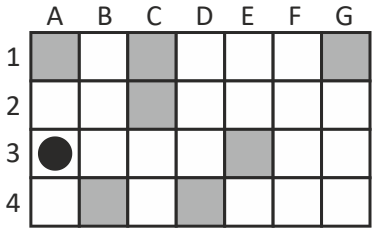
21. The front cover of the folder has two cut-outs that reveal specific icons inside. The image below shows the folder opened, displaying the icons.



When the folder is closed, which numbered icons will be fully visible through the cut-outs?

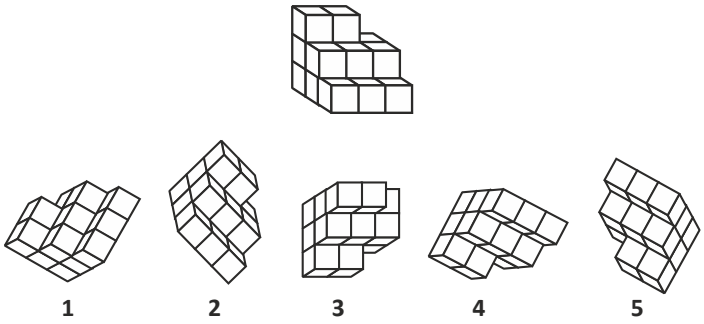
A) 1
B) 2
C) 3
D) 4
E) 5

22. A game board is made up of equal-sized squares, some of which are shaded. A circular game piece on this board can move one square diagonally to the right with each move. Since the piece cannot pass through shaded squares, what is the furthest square it can reach by taking the longest possible path?



A) E-4
B) F-4
C) G-3
D) G-2
E) G-4

23. When the position and orientation of the structure below are changed, which of the following numbered shapes <u>cannot be</u> obtained?



A) 1
B) 2
C) 3
D) 4
E) 5

24. Below are three shapes, each composed of equal-sized squares. What can be said about the areas of the grey-colored regions in these shapes?

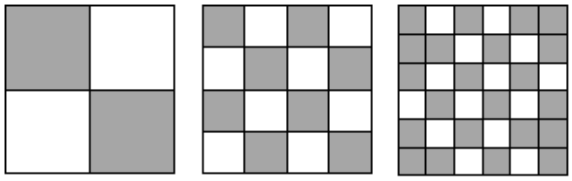
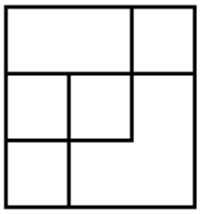


Figure 1 Figure 2 Figure 3

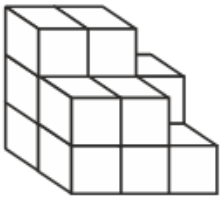
A) The area of the grey-shaded region in Figure 1 is greater than the area of the grey-shaded region in Figure 2.
B) The area of the grey-shaded region in Figure 1 is smaller than the area of the grey-shaded region in Figure 2.
C) The area of the grey-shaded region in Figure 2 is greater than the area of the grey-shaded region in Figure 3.
D) The area of the grey-shaded region in Figure 1 is greater than the area of the grey-shaded region in Figure 3.
E) The largest grey-shaded region is in Figure 3.

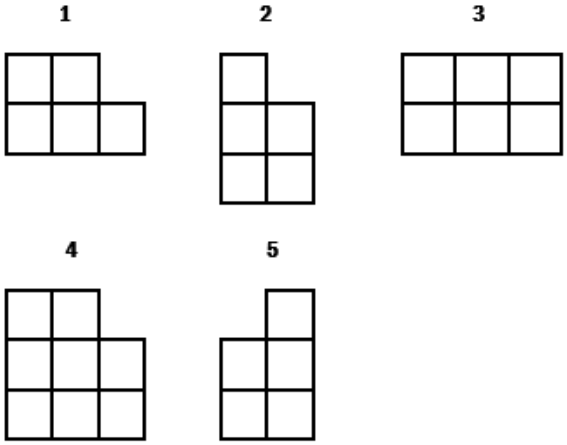
25. How many squares are seen in the figure below?



A) 4
B) 5
C) 6
D) 7
E) 8

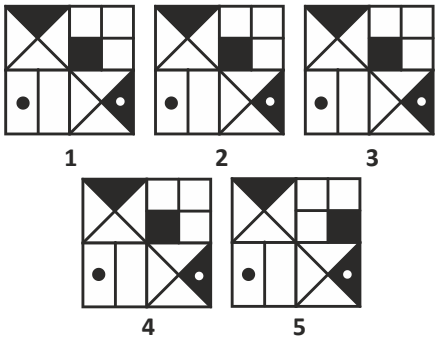
26. Below is a structure made up of congruent cubes. Which of the options <u>cannot</u> represent a possible view of this structure from any angle?





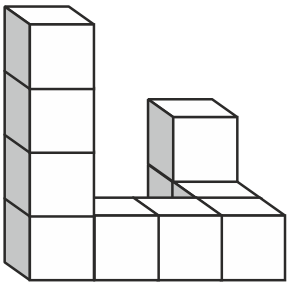
A) Only 1
B) 2 and 5
C) Only 3
D) 1 and 4
E) Only 4

27. Which one of the following five figures is different from the other four?



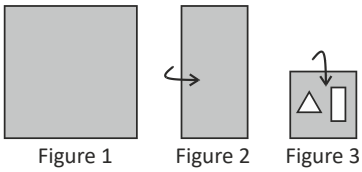
A) 1
B) 2
C) 3
D) 4
E) 5

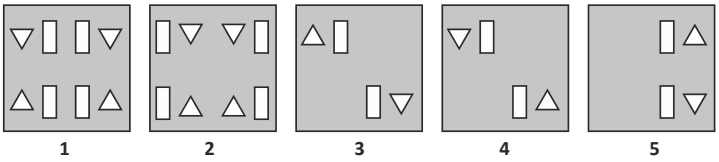
28. When the structure shown below is completely submerged in a paint-filled container, what is the total number of cubes painted on five faces and on four faces?



A) 7
B) 8
C) 9
D) 10
E) 12

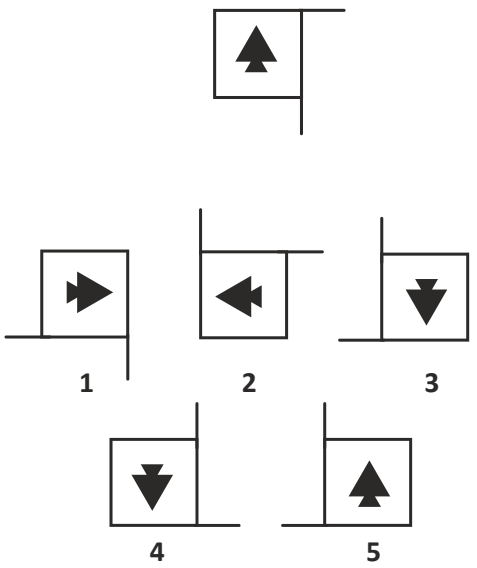
29. In Figure 1, a square sheet of paper is shown. This square is first folded vertically in half down the middle, as shown in Figure 2. Then, while folded, it is folded once more horizontally in half upwards, resulting in the shape shown in Figure 3. In this final folded state, two pieces – one triangular and one rectangular – are cut out of the paper. When the paper is fully unfolded back to its original state, which of the following shapes will appear?





A) 1
B) 2
C) 3
D) 4
E) 5

30. Which of the shapes below <u>cannot</u> be obtained by rotating or flipping the given shape?



A) 1
B) 2
C) 3
D) 4
E) 5

ANSWER SHEET

QUES.	ANS.
1	C
2	B
3	C
4	A
5	A
6	B
7	D
8	E
9	A
10	B
11	E
12	A
13	B
14	D
15	A

QUES.	ANS.
16	C
17	B
18	C
19	D
20	C
21	D
22	C
23	C
24	E
25	D
26	A
27	E
28	D
29	B
30	E