SECTION A: NUMERICAL REASONING

1. The remainder of a four-digit natural number divided by 5 is 2. Which of the following could be this number?

A) 2567
B) 2053
C) 1868
D) 1645
E) 1061

2. The age difference between Ahmet and Ayşe is 12 years. Hasan is 4 years younger than Ahmet. Since Ahmet's current age is 28, which one(s) is true regarding the sum of ages of Ayşe and Hasan today?

I. The sum of the ages of Hasan and Ayşe could be 68.

II. The sum of Hasan and Ayşe's ages could be 44

III. The sum of Hasan and Ayşe's ages could be 64

IV. The sum of Hasan and Ayşe's ages could be 40.

A) Only I
B) Only II
C) I and II
D) III and IV
E) II and IV

3. When a two-digit natural number "A8" is multiplied by "2", a two-digit natural number is obtained. In this case, what is the maximum possible value of "A"?

A) 8
B) 7
C) 4
D) 3
E) 2

4. The ratio of the number of plum trees in a garden to the number of orange trees is 12/28. What is the minimum possible sum of the number of plum and orange trees in this garden?

A) 10
B) 13
C) 14
D) 20
E) 40

5. 30% of a number is 8 more than 20% of this number. What is this number?

A) 24
B) 36
C) 48
D) 60
E) 80

6. 16 students in a class like at least one of apples or oranges. The number of students who like oranges is 8, and the number of students who like apples is 11. In this case, how many students like both fruits?

A) 2
B) 3
C) 5
D) 8
E) 11

7. If the pencils in a box are shared so that there are 4 pencils for each student in a class, 2 pencils are left. If there were 2 more students in the class, each student would get 3 pencils. In this case, how many pencils are there in the box?

A) 12
B) 14
C) 16
D) 18
E) 36

8. Instead of dividing a number by 3, Ahmet accidentally multiplied it by 3 and found the result to be 48 more. In this case, what is the number that Ahmet initially tried to divide?

    A) 6
    B) 16
    C) 18
    D) 48
    E) 54

9. The sum of a natural number by itself and its multiplication by itself is equal. What could be 5 more than this number?

    A) 10
    B) 7
    C) 6
    D) 4
    E) 3

10. The average of a group of numbers is 7. Since the sum of these numbers is 28, how many numbers are there?

    A) 7
    B) 6
    C) 5
    D) 4
    E) 3

SECTION B: VERBAL REASONING

11. Four of the following are the members of a group. Which one is not a member of this group?

    A) Alaska
    B) Antarctica
    C) Asia
    D) Australia
    E) America

12. According to a secret code A2 = C, K4 = O and D3 = G. What is the code for J3?

    A) C
    B) P
    C) R
    D) M
    E) N

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

    cartuarsobalo= Red thick book
    katuparizaro = Green big ball
    paricarobalo = Big yellow book

    Which of the following words would mean "Big Thick Wood"?

    A arsoparibalo
    B) pariarsocara
    C) baloarsopari
    D) pariarsobalo
    E) katuarsobalo

Instructions for Question 14:
The following question has an underlined word followed by five answer choices. Please choose the word that is the necessary part of the underlined word.

14. <u>Violin</u>

    A) Orchestra
    B) Concert
    C) Song
    D) Strings
    E) Opera

15. TIGER is to MEAT as CAR is to …

    A) STEERING WHEEL
    B) FUEL
    C) WHEEL
    D) ENGINE
    E) ROAD

16. According to a secret code KARTO = 23, PERAKUTO = 44 and TOTOL = 23. What is the code for ALETURO?

A) 23
B) 24
C) 34
D) 42
E) 43

Instructions for Question 17:
In the question below two statements are given followed by two conclusions numbered as I. and II. You have to take the given two statements to be true even if they seem to be a variant of commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows the two given statements, disregarding commonly known facts.

17. *Statements*: Some books are novels. Some novels are based on facts.

Conclusions:
I.   All books are novels.
II. Books based on facts are novels.

A) Only conclusion I follows.
B) Only conclusion II follows.
C) Either I or II follows.
D) Neither I nor II follows.
E) Both I and II follow.

18. If you rearrange the letters "DAOVACA" you would have the name of a/an.

A) City
B) Country
C) Animal
D) Equipment
E) Food

19. According to a secret code KARABOLA = 3, HATOBECA = 2 and TALBORE = 1. What is the code for BARTALAZA?

A) 2
B) 3
C) 4
D) 5
E) 9

20. According to a secret code ARKODA = AOARKD, TELAPOR = EAOTLPR. What is the code for KUZAPET?

A) UAEKZPT
B) APETKUZ
C) ZUKPETA
D) ZATEPUK
E) TPZKEAU

SECTION C: VISUAL-SPATIAL

REASONING

21. Which one of the following five figures is <u>different</u> than the other four?
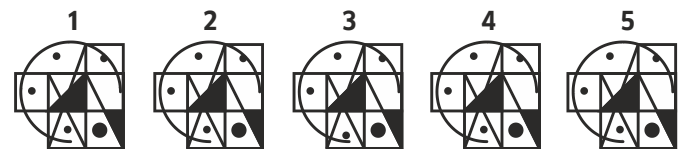
A) 1
B) 2
C) 3
D) 4
E) 5

22. What is the <u>maximum</u> number of squares in the picture on the right?
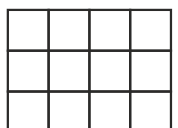
A) 12
B) 14
C) 18
D) 20
E) 22

23. **At least how many triangles should be used to form the planar figure on the right?**

A) 10
B) 8
C) 6
D) 4
E) 3
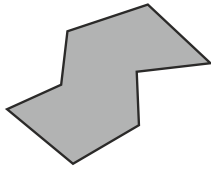
24. **How many identical cubes could be used at most to create the following structure consisting of identical cubes?**
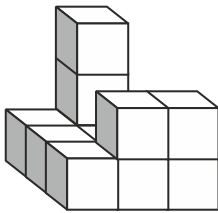
A) 14
B) 13
C) 11
D) 10
E) 9

25. **Which of the dashed line segments shown with numbers in the picture below is one of the symmetry lines of the dark figure?**
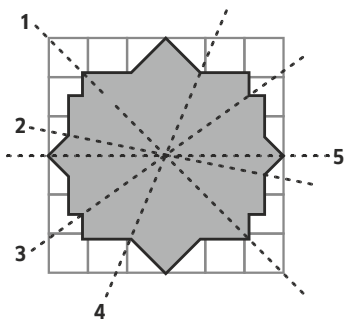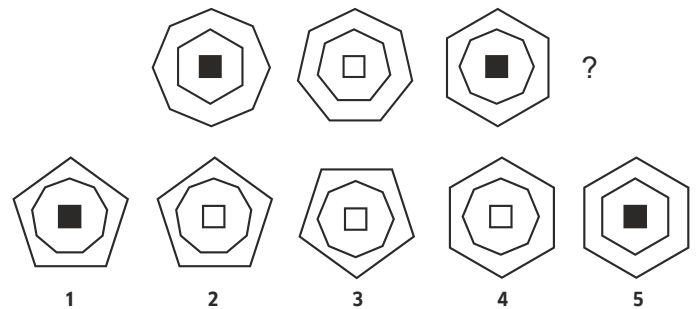
A) 1
B) 2
C) 3
D) 4
E) 5

26. **The plane figure which is formed by identical squares is folded to form a cube. Which face is the opposite of the face numbered "5"?**

	1	6
	2	
5	4	
3		
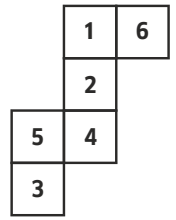
A) 1
B) 2
C) 3
D) 4
E) 6

27. **Which of the numbered shapes will be the next in the shape pattern below?**

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

28. **Which of the following shapes has the wrong shadow?**
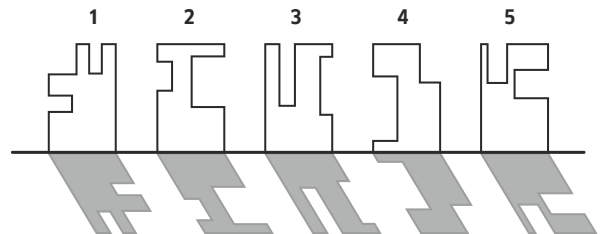
A) 1
B) 2
C) 3
D) 4
E) 5

29. Which of the following shapes in square form have equal areas?
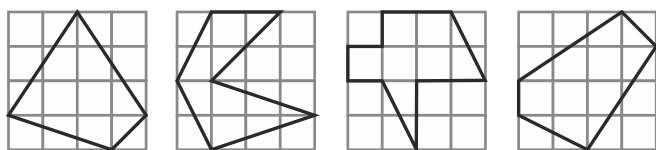
1   2   3   4

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

30. Which of the numbered shapes will be the next in the shape pattern below?

?
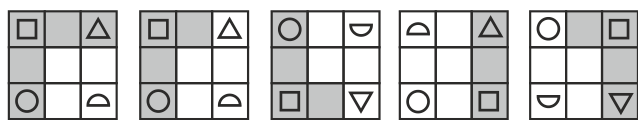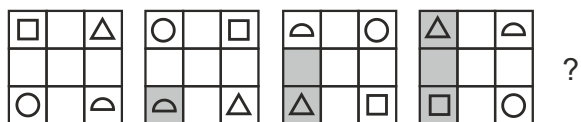
1   2   3   4   5

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

EU SCHOLARSHIP PROGRAMME FOR THE TURKISH CYPRIOT COMMUNITY

VERBAL, NUMERICAL and VISUAL-SPATIAL TEST | BOOKLET PD/UG A

ANSWER KEY

NUMERICAL REASONING	VERBAL REASONING	VISUAL & SPATIAL REASONING
1. A	11. A	21. C
2. D	12. D	22. D
3. C	13. B	23. C
4. A	14. D	24. B
5. E	15. B	25. E
6. B	16. E	26. E
7. D	17. D	27. B
8. C	18. E	28. A
9. B	19. C	29. D
10. D	20. A	30. B