



## GAÜNYÖS 2022

# A

### ADAY ÖĞRENCİNİN / CANDIDATE STUDENT

ADI / NAME / الاسم : .....

SOYADI / SURNAME / الكنية : .....

İMZA / SIGNATURE / التوقيع : .....

#### GENEL SINAV AÇIKLAMALARI

I. Bu sınavdaki soruların nasıl cevaplanacağı, testlerin başında açıklanmıştır. Soruları cevaplamaya başlamadan önce bu açıklamaları dikkatle okuyunuz.

II. Sınavda toplam 80 soru bulunmaktadır. Verilen toplam süre 120 dakikadır.

III. Bu testlerdeki her sorunun bir tek doğru cevabı vardır. Bir soru için birden çok cevap yeri işaretlenmişse, o soru yanlış cevaplanmış sayılacaktır.

IV. Cevaplarınızı koyu siyah ve yumuşak bir kurşun kalemle işaretleyiniz. İşaretlerinizi cevap yerinin dışına taşırmayınız. Tükenmez kalem veya dolma kalem kullanmayınız.

V. Değiştirmek istediğiniz bir cevabı, yumuşak bir silgiyle cevap kâğıdını örselemeden, temizce siliniz ve yeni cevabınızı işaretlemeyi unutmayınız.

VI. Cevap kâğıdınızı buruşturmayınız, katlamayınız ve üzerine gereksiz hiçbir işaret koymayınız.

VII. Bu test puanlanırken, yanlış cevaplarınızın sayısı doğru cevaplarınızı etkilemeyecektir.

VIII. Sınavda uyulacak diğer kurallar bu kitapçığın arka kapağında belirtilmiştir. Bu kuralları dikkatlice okuyup uygulamanız sınavınızın geçerli sayılması için gereklidir.

#### GENERAL EXAM INSTRUCTIONS

I. The instructions for answering the questions appear at the beginning of the tests. Please read these carefully before beginning.

II. There are 80 questions in the exam. The total duration given is 120 minutes.

III. In these tests there is only one correct answer for each question. If more than one alternative is marked, that answer will automatically be considered wrong.

VI. You should use a soft, black pencil to mark the answer sheet. Completely fill in the circle for the answer you have chosen, but make sure your mark does not go beyond the borders of the circle. Do not use any kind of pen.

V. If you wish to change an answer, carefully erase it completely with a very soft eraser. Do not forget to mark your new answer.

VI. Keep the answer sheet flat and do not fold it. Do not make any unnecessary marks on it.

VII. While this test is scored, the number of wrong answers will not affect your correct answers.

VIII. The other regulations concerning the administration of the tests will be found at the back of the booklet. These rules are to be read carefully and applied in order for your exam to be considered valid.

#### التعليمات العامة

يوجد في بداية كل اختبار تعليمات حول كيفية الإجابة على الأسئلة . يرجى قراءتها بعناية قبل الإجابة على الأسئلة

هناك 80 سؤال في الامتحان . المدة الممنوحة الإجمالية 120 دقيقة

هناك إجابة واحدة صحيحة لكل سؤال من الأسئلة الموجودة في هذه الاختبارات . إذا تم وضع علامة اختيار على أكثر من إجابة لسؤال ما , فسيحسب إجابتك خاطئة

علم إجابتك بقلم رصاص أسود ولين . مع مراعاة عدم التظليل خارج المكان المحدد . لا تستخدم قلم جاف أو قلم حبر عادي .

إذا كنت تريد تغيير إجابة ما , فامحها بشكل تام مستخدماً ممحاة طرية مع مراعاة الحفاظ على الورقة . ولا تنسى وضع علامة للجواب الجدي

لا تقم بتحريف ورقة الإجابة الخاصة بك , ولا تطويها ولا تضع أي علامات غير ضرورية عليها

لن تؤثر عدد الاجابات الخاطئة على الاجابات الصحيحة في الامتحان .

تم ذكر القواعد الأخرى التي يجب اتباعها في الامتحان على الغلاف الخلفي لهذا الكتيب . اقرأ هذه القواعد بعناية وقم بتطبيقها بشكل دقيق لكي يصبح امتحانكم مقبولا .



### TEMEL MATEMATİK TESTİ

- 1) Bu test sizin matematik alanındaki becerilerinizi ölçmek için hazırlanmıştır.
- 2) Bu testte 40 soru bulunmaktadır.
- 3) Bu testteki soruların cevapları, cevap kâğıdının Temel Matematik Testi için ayrılmış olan kısmına işaretlenmelidir.
- 3) Bu testte istediğiniz sorudan cevaplamaya başlayabilirsiniz.
- 4) Bu testte cevaplarınızı işaretlerken cevapladığınız soru numarası ile cevap kâğıdındaki Temel Matematik Testi alanındaki cevap numarasının aynı olmasına dikkat etmeniz gerekmektedir.

### BASIC MATHS TEST

- 1) This test is prepared to measure your skills in Maths.
- 2) There are 40 questions in this test.
- 3) The answers to the questions in this test should be marked on the part of the Answer Sheet reserved for Basic Maths Test.
- 4) In this test, you can start responding at any question you want.
- 5) In this test, you should pay attention to the question number and the number in answer sheet in Basic Maths Test part to be the same.

### الرياضيات الأساسية

- 1 - لقد تم تصميم هذا الامتحان لقياس مهاراتكم في الرياضيات .
- 2 - يوجد 40 سؤال في هذا الامتحان .
- 3 - يجب أن تظل الأسئلة في القسم المخصص لامتحان الرياضيات من ورقة الإجابة .
- 4 - يمكنك أن تبدأ في الإجابة على أى سؤال تريده في هذا الامتحان .



1.

$$4 - \frac{1 + \frac{2}{3-m}}{3} = 3 \Rightarrow m = ?$$

- A) -2
- B) -1
- C) 0
- D) 1
- E) 2

2.

$$\frac{a, bc - 0, abc}{5,436} \Rightarrow a + b + c = ?$$

- A) 12
- B) 10
- C) 8
- D) 5
- E) 4

3.

$4^{12}$  sayısının dörtte biri kaçtır?

What is one quarter of  $4^{12}$ ?

ما هو ربع العدد  $4^{12}$  ؟

- A)  $2^{12}$
- B)  $2^8$
- C)  $4^8$
- D)  $4^3$
- E)  $2^{22}$

4.

$$x \in R, \sqrt{\frac{\sqrt{x}-1}{\sqrt{x}+1}} = \sqrt{x}-1 \Rightarrow x^2-1 = ?$$

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

5.

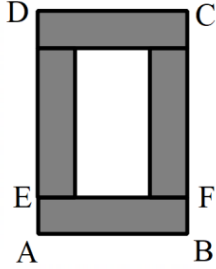
$$\left. \begin{array}{l} a, b \in R \neq 0, \\ |a \cdot b| = 3 \cdot b \\ \left| \frac{a}{b} \right| = -\frac{a}{4} \end{array} \right\} \Rightarrow b - a = ?$$

- A) -7
- B) -1
- C) 7
- D) 1
- E) 12

6. Verilen şekil 4 tane eş dikdörtgenden oluşmuştur.

The figure consists of 4 equal rectangles.

يتكون الشكل المرسوم من 4 مستطيلات متساوية..



$$A(\square ABCD) = 12 \cdot (x^2 - 1)$$

$$|AD| = 4 \cdot (x + 1)$$

$$|AE| = ?$$

- A)  $\frac{x-3}{2}$   
 B)  $\frac{x+4}{2}$   
 C)  $\frac{x+7}{2}$   
 D)  $\frac{x-5}{2}$   
 E)  $\frac{6-x}{2}$

7.  $\frac{n^8 + n^4 + 1}{(n^4 - n^2 + 1) \cdot (n^2 + n + 1)} = 6 \Rightarrow n^2 - n = ?$

- A) 8  
 B) -2  
 C) 6  
 D) 3  
 E) 5

8.  $\frac{x-y}{z} = \frac{5}{4}, \quad \frac{y-z}{x} = \frac{1}{10} \Rightarrow \frac{x}{y} = ?$

- A)  $\frac{1}{2}$   
 B) 1  
 C)  $\frac{3}{2}$   
 D) 2  
 E)  $\frac{5}{2}$

9.  $\left. \begin{aligned} \frac{a}{b} &= \frac{c}{d} = \frac{4}{7} \\ \frac{6a+32}{3b+2d} &= \frac{8}{7} \end{aligned} \right\} \Rightarrow d = ?$

- A) 7  
 B)  $\frac{35}{4}$   
 C) 14  
 D)  $\frac{14}{5}$   
 E) 21

10.  $\frac{\frac{3}{5} \cdot \left(x + \frac{7}{2}\right)}{8} = 3 \Rightarrow x = ?$

- A)  $\frac{40}{7}$   
 B)  $\frac{25}{3}$   
 C)  $\frac{205}{6}$   
 D) 63  
 E)  $\frac{73}{2}$

11.  $\left. \begin{array}{l} \frac{x+y}{xy} = \frac{1}{5} \\ \frac{x+z}{xz} = \frac{1}{3} \\ \frac{y+z}{yz} = \frac{1}{4} \end{array} \right\} \Rightarrow z = ?$

- A) 3  
 B)  $\frac{16}{5}$   
 C)  $\frac{85}{12}$   
 D)  $\frac{120}{23}$   
 E) 6

12.  $\left. \begin{array}{l} \frac{2}{x} = \frac{3}{2y} \\ 9x - y = 33 \end{array} \right\} \Rightarrow y = ?$

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

GAÜN YÖS 2022

13. Bir ürünün etiket fiyatına %20 zam yapıldıktan sonra ürüne % 20 indirim yapılıyor. Buna göre ürünün fiyatı başlangıçtaki fiyatına göre yüzde olarak nasıl değişim gösterir?

A product's price is first increased by 20% and then decreased by 20% in the label price. Accordingly, how does the product's final price change when compared to the initial price?

بعد زيادة سعر المنتج بنسبة 20 % يتم خفضه بنسبة 20 %، وفقاً لذلك، كيف يتغير السعر النهائي للمنتج عند مقارنته بالسعر الأولي (ماهي نسبة السعر النهائي من السعر الأولي)؟

- A) +4  
 B) -4  
 C) 0  
 D) +10  
 E) -10

14. Bir iş yeri çalışanlarına iki çeşit zam teklifi yapılmıştır:

I. Teklif: Ücretlerin 200 TL artırılması

II. Teklif: Ücretlerin  $\frac{1}{5}$  oranında artırılması

Y TL ücret alanlar I. teklifi, X TL ücret alanlar II. teklifi tercih ederlerse daha karlı olduklarını görüyorlar. Bu bilgilere göre X ve Y hakkında aşağıdakilerden hangisi doğrudur?

Two types of raise offers have been made to employees in a company:

1<sup>st</sup> offer: Increasing the wages by 200 TL,

2<sup>nd</sup> offer: Increasing the wages by  $\frac{1}{5}$ .

Those who earn Y TL are more profitable if they accept 1<sup>st</sup> offer, and those who earn X TL are more profitable if they accept 2<sup>nd</sup> offer. Accordingly, which of the following is true about X and Y?

تمت زيادة رواتب العاملين في أحد أماكن العمل من خلال تقديم عرضين:

العرض الأول: زيادة الراتب بمقدار 200 ليرة تركية

العرض الثاني: زيادة الراتب بنسبة  $\frac{1}{5}$  من راتبه

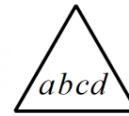
أصحاب الرواتب الذين يكسبون Y ليرة تركية يكونون أكثر ربحاً إذا قبلوا العرض الأول، وأصحاب الرواتب الذين يكسبون X ليرة تركية يكونون أكثر ربحاً إذا قبلوا العرض الثاني. وفقاً لذلك، أي مما يلي ينطبق على X و Y؟

- A)  $Y < 1000 < X$   
B)  $X < 750 < Y$   
C)  $X < 1000 < Y$   
D)  $X = 500 < Y$   
E)  $Y < X < 500$

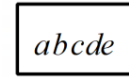
15. 
$$\left. \begin{aligned} a \Delta b &= a + (a \theta b) \cdot 5 \\ a \theta b &= a + 6 \cdot b \end{aligned} \right\} \Rightarrow 2 \Delta 3 = ?$$

- A) 112  
B) 102  
C) 94  
D) 82  
E) 30

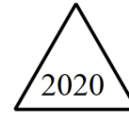
16.



$$= ax^3 - bx^2 + cx - d$$



$$= ax^4 + bx^3 + cx^2 + dx + e$$

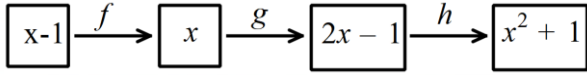


$$\cdot \left[ \begin{array}{|c|} \hline 20021 \\ \hline \end{array} \right] = \dots + Ax^5 + \dots$$

$$A = ?$$

- A) 0  
B) 1  
C) 2  
D) 4  
E) -4

17.  $f, g, h: R \rightarrow R$



$$(h \circ f)(2) - (g \circ h)(-1) = ?$$

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

18.  $a, b, c < 0$

$$P(x) = x^3 + ax + b + 2,$$

$$\begin{array}{l} P(x) \mid x \\ \hline 0 \end{array}, \quad \begin{array}{l} P(x) \mid x-3 \\ \hline 0 \end{array}, \quad \begin{array}{l} P(x) \mid x-c \\ \hline 0 \end{array}$$

$$P[a - 2 \cdot (b + c)] = ?$$

- A) -8
- B) -5
- C) -4
- D) -3
- E) -2

19.

$$A_n = \{x : (-1)^n < \frac{x-1}{n} \leq 3, x \in \mathbb{Z}\}$$

$$\Rightarrow A_1 \cup A_2 = ?$$

- A) { 4 }
- B) { 1, 2, 3, 4 }
- C) { 4, 5, 6, 7 }
- D) { 1, 2, 3, 4, 5, 6, 7 }
- E) { -1, 0, 1, 2, 3 }

20.

A ve B kümedir.

A and B are sets.

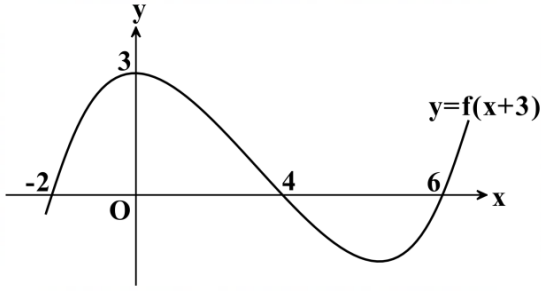
$$\frac{S(A \cup B)}{18} = \frac{S(A)}{9} = \frac{S(A - B)}{4}$$

$$S(B - A) = 18, S(A \cup B)' = 5$$

$$S(A' \cup B') = ?$$

- A) 36
- B) 35
- C) 33
- D) 32
- E) 31

21.



$y = f(x + 3)$  fonksiyonunun grafiği verilmiştir. Buna göre  $f(x) = 0$  eşitliğini sağlayan  $x$  değerlerinin toplamı kaçtır?

The graph of the  $y = f(x + 3)$  function is given. What is the sum of the  $x$  values satisfying  $f(x) = 0$ ?

تم إعطاء التمثيل البياني للدالة  $y = f(x + 3)$  . وفقاً لذلك،  
ما مجموع قيم  $x$  التي تحقق  $f(x) = 0$  ؟

- A) -1
- B) 8
- C) 15
- D) 17
- E) 19

22.

$$f: \mathbb{R} \rightarrow \mathbb{R}, f(4x) - 3f(x) = 2x - 8 \\ \Rightarrow f(7) = ?$$

- A) 12
- B) 14
- C) 16
- D) 18
- E) 20

23.

$$\pi < x < 2\pi$$

$$\cos x = -\frac{3}{5} \Rightarrow 8 \cdot \cot x + 10 \cdot \sin x = ?$$

- A) 14
- B) 2
- C) -2
- D) -14
- E) 5

24.

$$K \in \mathbb{Z}, x \in (\pi, \frac{3\pi}{2})$$

$$K = \frac{3 \cdot \sin x - 1}{2}$$

$$K = ?$$

- A) 2
- B) 1
- C) 0
- D) -1
- E) -2

25.

$$f: \mathbb{R} - \{1\} \rightarrow \mathbb{R}$$

$$f\left(\frac{x}{x-1}\right) = 2^x \Rightarrow f^{-1}\left(\frac{1}{2}\right) = ?$$

- A)  $\frac{1}{2}$
- B) -2
- C)  $\frac{1}{4}$
- D)  $\sqrt{2}$
- E) -1

26.  $\log 7 = 0,85$  olduğuna göre  $(3430)^{20}$  sayısı kaç basamaklıdır?

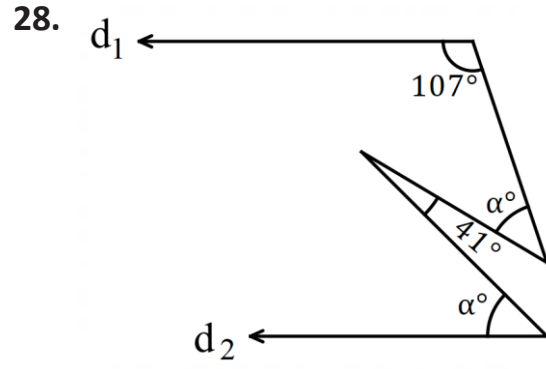
Given that  $\log 7 = 0,85$ , What is the number of digits in  $(3430)^{20}$ ?

بما أن  $\log 7 = 0,85$  ، ماهي عدد مراتب (خانات) العدد  $(3430)^{20}$  ؟

- A) 72  
B) 71  
C) 34  
D) 33  
E) 30

27.  $\left. \begin{array}{l} \log_2 x = y \\ \log_{2y} 8 = 3 \end{array} \right\} \Rightarrow x + y = ?$

- A) -3  
B) -1  
C) 0  
D) 1  
E) 3

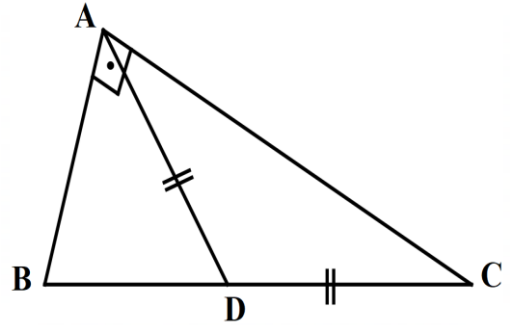


$$d_1 \parallel d_2$$

$$\alpha = ?$$

- A) 68  
B) 39  
C) 48  
D) 63  
E) 57

29.



$$[AB] \perp [AC]$$

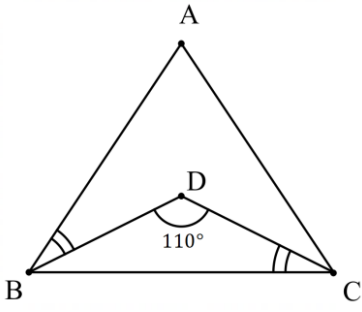
$$m(\angle DAC) = 15^\circ$$

$$|DC| = 6 \text{ cm}$$

$$A(\triangle ABC) = ? \text{ cm}^2$$

- A) 10  
B)  $8 + \sqrt{3}$   
C) 36  
D)  $9 + \sqrt{3}$   
E) 18

30



$$m(\angle ABD) = m(\angle DCB)$$

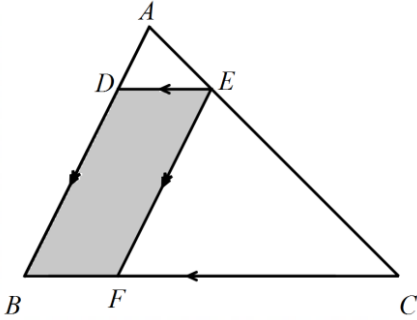
$$m(\angle BDC) = 110^\circ$$

$$|AB| = |AC|$$

$$m(\angle BAC) = x^\circ \Rightarrow x = ?$$

- A) 30  
B) 40  
C) 50  
D) 60  
E) 70

31.



$$[DE] \parallel [BC],$$

$$[EF] \parallel [AB],$$

$$8 \cdot |AE| = 3 \cdot |AC|$$

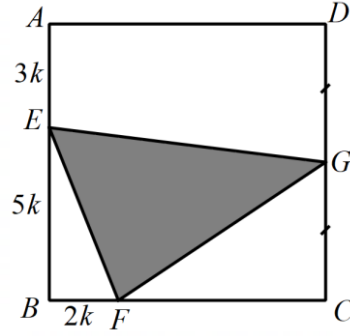
$$\Rightarrow \frac{A(\square DEFB)}{A(\triangle ABC)} = ?$$

- A)  $\frac{7}{37}$  B)  $\frac{15}{64}$  C)  $\frac{30}{65}$  D)  $\frac{15}{32}$  E)  $\frac{48}{121}$

32. ABCD bir karedir.

ABCD is a square.

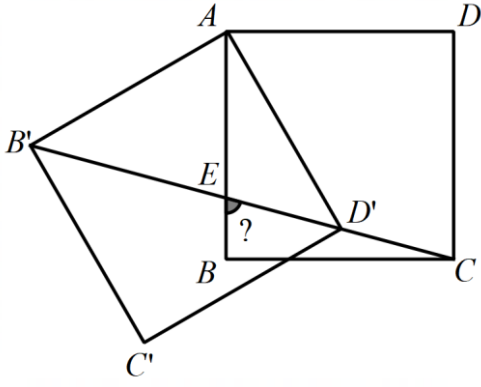
ABCD هو مربع.



$$|DG| = |GC| \Rightarrow \frac{A(\triangle EFG)}{A(\square ABCD)} = ?$$

- A)  $\frac{19}{64}$  B)  $\frac{19}{45}$  C)  $\frac{1}{4}$  D)  $\frac{5}{32}$  E)  $\frac{3}{32}$

33.



Şekilde verilen ABCD karesi A noktası etrafında döndürülerek  $AB'C'D'$  karesi elde ediliyor.

$B', E, D'$  ve  $C$  noktaları doğrusal olduğuna göre  $m(\angle BEC) = ?$

ABCD square in the figure is rotated around vertex A and  $AB'C'D'$  square is obtained.

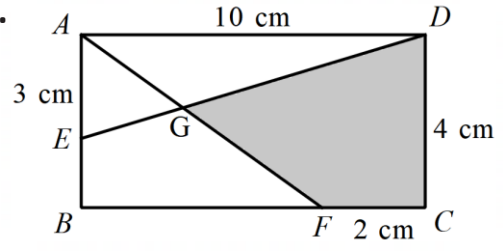
Given that  $B', E, D'$  ve  $C$  vertices are linear, what is  $m(\angle BEC) = ?$

يتم تدوير مربع ABCD في الشكل حول الرأس A ويتم الحصول على المربع  $AB'C'D'$ . إذا كانت الرؤوس  $B', E, D'$  ve  $C$  خطية ، فما هو

$m(\angle BEC) = ?$

- A)  $45^\circ$
- B)  $60^\circ$
- C)  $75^\circ$
- D)  $80^\circ$
- E)  $85^\circ$

34.



ABCD bir dikdörtgendir

ABCD is a rectangle.

ABCD هو مستطيل.

$$|AD| = 10 \text{ cm}, |AE| = 3 \text{ cm},$$

$$|FC| = 2 \text{ cm}, |DC| = 4 \text{ cm},$$

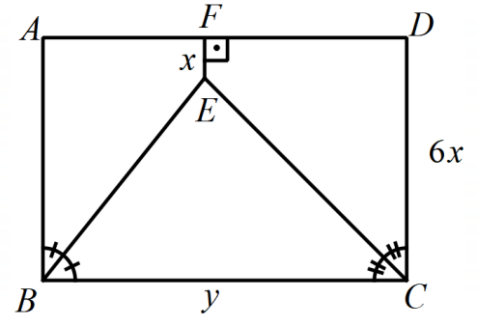
$$A(GFCD) = x \text{ cm}^2 \Rightarrow x = ?$$

- A)  $\frac{145}{17}$
- B)  $\frac{117}{8}$
- C)  $\frac{68}{7}$
- D) 9
- E) 12

35. ABCD bir dikdörtgendir

ABCD is a rectangle.

ABCD هو مستطيل.



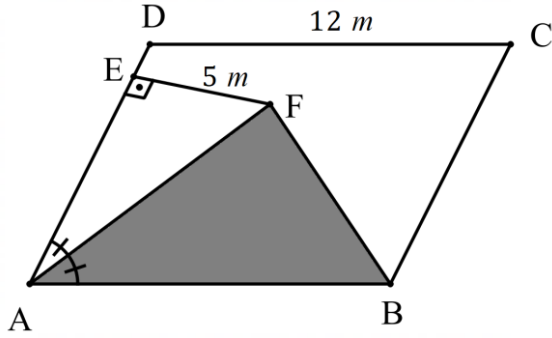
$$\frac{y}{x} = ?$$

- A) 10
- B) 6
- C)  $\frac{5}{3}$
- D)  $\frac{\sqrt{3}}{2}$
- E)  $\frac{3}{4}$

36. ABCD paralelkenardır.

ABCD is a parallelogram.

ABCD هو متوازي أضلاع.



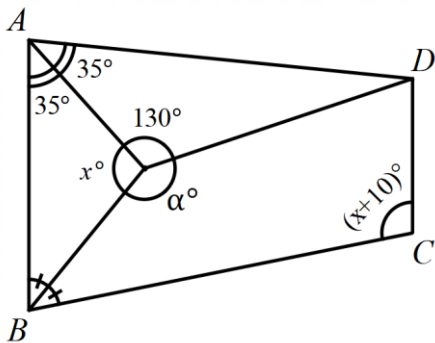
$$A(\triangle AFB) = x \text{ m}^2 \Rightarrow x = ?$$

- A) 30    B)  $\frac{45}{2}$     C) 40    D)  $\frac{65}{2}$     E) 60

37. ABCD yamuktur.

ABCD is trapezoidal

ABCD هو شبه منحرف.



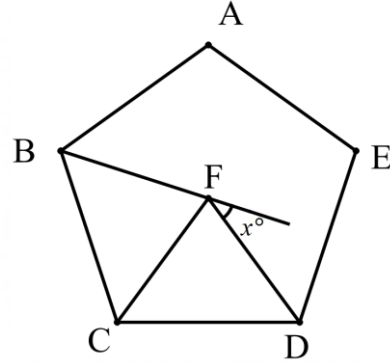
$$\alpha = ?$$

- A) 95    B) 100    C) 110    D) 120    E) 130

38. ABCDE düzgün beşgen, CDF eşkenar üçgendir.

ABCDE is a regular pentagon and CDF is an equilateral triangle.

ABCDE هو شكل خماسي منظم و CDF هو مثلث متساوي الأضلاع.



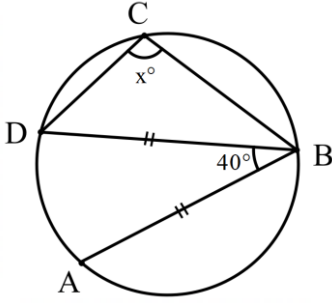
$$x = ?$$

- A) 48  
B) 54  
C) 60  
D) 72  
E) 70

39. Verilen çemberde  $|DB| = |AB| \Rightarrow x = ?$

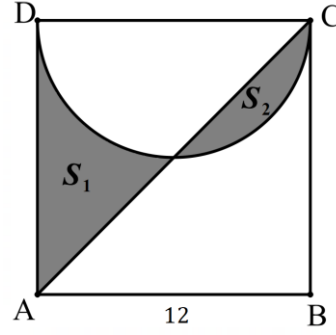
In the given circle  $|DB| = |AB| \Rightarrow x = ?$

في الدائرة الموضحة إذا كان  $|DB| = |AB|$  فكم يساوي  $x$ ؟



- A) 100
- B) 110
- C) 120
- D) 130
- E) 140

40. D



ABCD kare,  $[AC]$  köşegen ve  $[CD]$  yarım dairenin çapıdır. Buna göre taralı alanlar toplamı  $(S_1 + S_2)$  kaç birim karedir?

ABCD is a square,  $[AC]$  is a diagonal, and  $[CD]$  is the diameter of the semicircle. Accordingly, what is the sum of the shaded areas  $(S_1 + S_2)$ ?

ABCD هو مربع ، و  $[AC]$  هو القطر ، و  $[CD]$  هو قطر نصف الدائرة. بناءً على ذلك ، كم مجموع المساحات المظلمة  $(S_1 + S_2)$ ؟

- A)  $36\pi$
- B)  $36\pi - 36$
- C) 36
- D)  $36\pi\sqrt{2}$
- E) 72



### GENEL YETENEK TESTİ

- 1) Bu test sizin soyut düşünme, akıl yürütme ve problem çözme alanlarındaki becerilerinizi ölçmek için hazırlanmıştır.
- 2) Bu testte 40 soru bulunmaktadır.
- 3) Bu testteki soruların cevapları, Cevap Kâğıdının Genel Yetenek Testi için ayrılmış olan kısmına işaretlenmelidir.
- 4) Bu testte istediğiniz sorudan cevaplamaya başlayabilirsiniz.
- 5) Bu testte cevaplarınızı işaretlerken cevapladığınız soru numarası ile cevap kağıdındaki Genel Yetenek Testi alanındaki cevap numarasının aynı olmasına dikkat etmeniz gerekmektedir.

### GENERAL APTITUDE TEST

- 1) This test is prepared to measure your skills in abstract thinking, reasoning, and problem solving areas.
- 2) There are 40 questions in this test.
- 3) The answers to the questions in this test should be marked on the part of the Answer Sheet reserved for General Aptitude.
- 4) In this test, you can start responding at any question you want.
- 5) In this test, you should pay attention to the question number and the number in answer sheet in General Aptitude Test part to be the same.

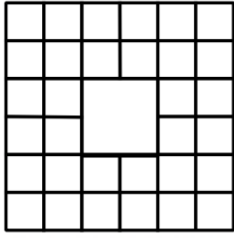
### امتحان المهارات العامة

- 1 - لقد تم تصميم هذا الامتحان لقياس مهاراتك في مجال التفكير التجريدي والتحليل المنطقي وحل المشاكل .
- 2 - يوجد 40 سؤال في هذا الامتحان .
- 3 - يجب أن تظلل إجابات الأسئلة في القسم المخصص لامتحان المهارات العامة من ورقة الإجابة .

1. Görselde kaç tane kare vardır?

How many squares are there in the image?

كم عدد المربعات في الصورة؟



A) 67

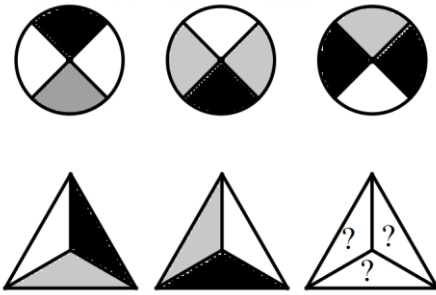
B) 70

C) 75

D) 78

E) 81

2.



A)



B)



C)



D)



E)



3.

|      |       |       |       |
|------|-------|-------|-------|
| I.   | ↓ ← ↓ | → ↑ ↓ | → ↑ ↓ |
| II.  | ← ↑ ↓ | ↓ → ↓ | ↓ ↑ ← |
| III. | ↓ → ↑ | ← ↑ ↑ | ???   |

A) ← ↓ ↓

B) → ↓ ↓

C) → ↓ ↑

D) ↓ → ↑

E) ↓ ↑ →

4.

|         |         |
|---------|---------|
| G N U A | 3 5 8 2 |
| A U G N | 8 3 5 2 |
| N G U A | 5 2 8 3 |
| U A N G | 2 5 8 3 |
| A N U G | 3 8 2 5 |

GAUN=?

A) 2538

B) 2385

C) 3258

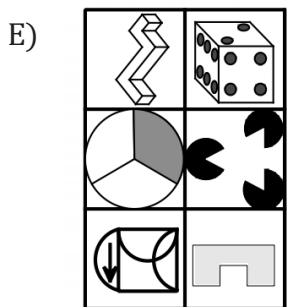
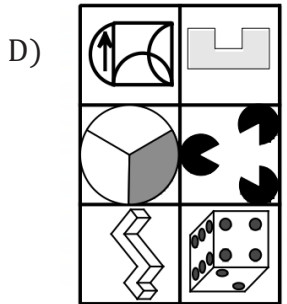
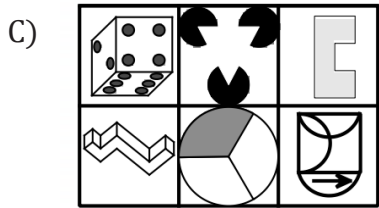
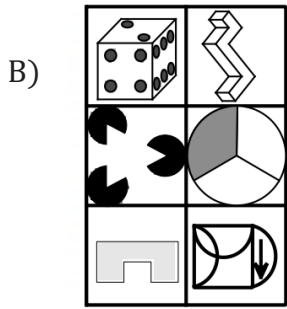
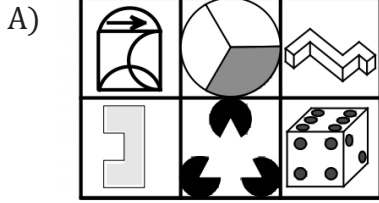
D) 5238

E) 8523

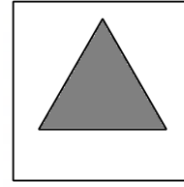
5. Verilen görsellerden hangisi diğerlerinden farklıdır?

Which of the images is different from the others?

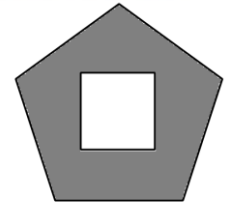
أي من الصور المقدمة تختلف عن الصور الأخرى؟



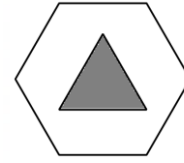
6.



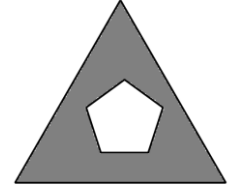
9



15



15



?

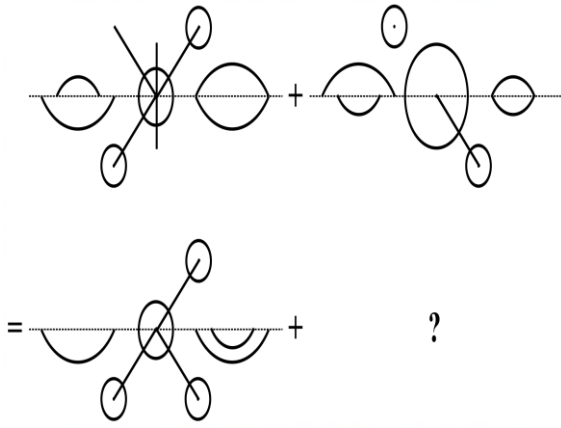
- A) 5
- B) 8
- C) 10
- D) 12
- E) 15

7.

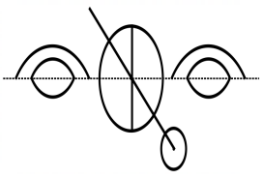
|    |   |     |
|----|---|-----|
| HE | → | ⊗ ⊙ |
| TA | → | ⊗ ∇ |
| MR | → | ⊖ Δ |
| SA | → | ⊗ ⊕ |
| RE | → | ⊗ ⊖ |
| ?  | → | ⊖ ⊗ |

- A) HS
- B) EA
- C) RS
- D) AH
- E) AR

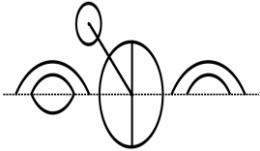
8.



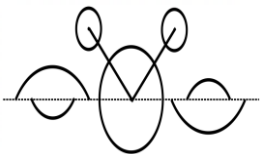
A)



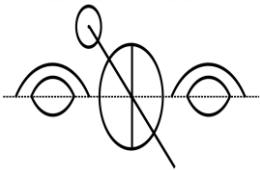
B)



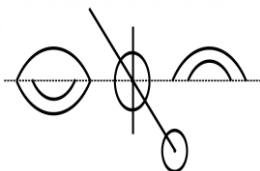
C)



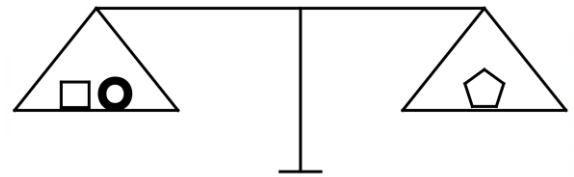
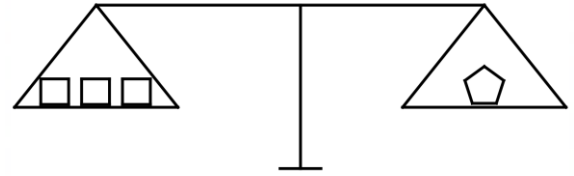
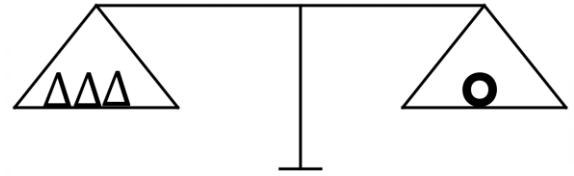
D)



E)



9.



$$\text{⬠} \times 2 = \Delta \times ?$$

A) 12

B) 11

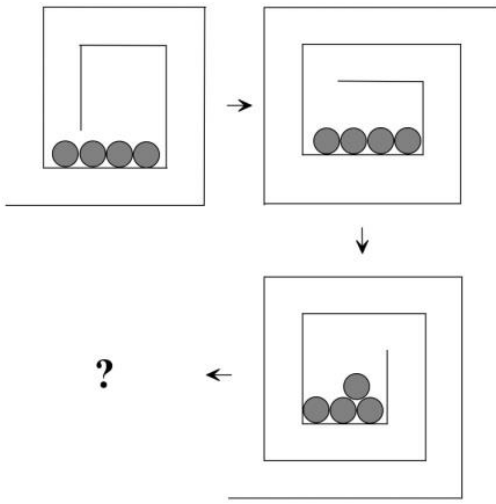
C) 10

D) 9

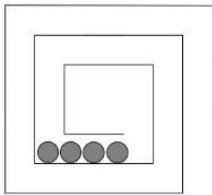
E) 8



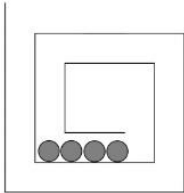
10.



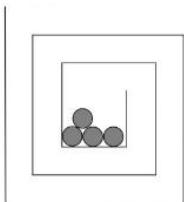
A)



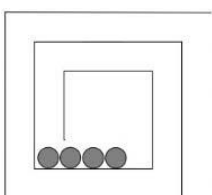
B)



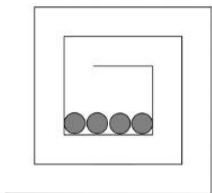
C)



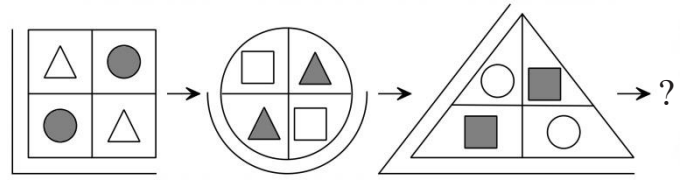
D)



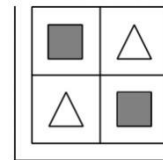
E)



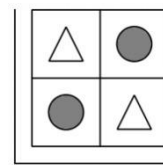
11.



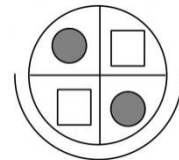
A)



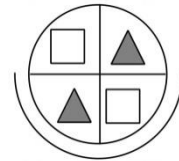
B)



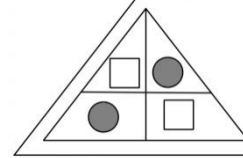
C)



D)



E)



12.

|   |   |   |
|---|---|---|
| x | c | b |
| c | k | m |
| b | m | n |

$$c + b = 8$$

$$k + m + n = y - m$$

$$\Rightarrow y = ?$$

- A) 16  
B) 36  
C) 48  
D) 60  
E) 64

13.

|          |  |  |  |
|----------|--|--|--|
| $\theta$ |  |  |  |
|          |  |  |  |
|          |  |  |  |
|          |  |  |  |

$$\text{circle } \theta \text{ parallelogram} = ?$$

- A)   
B)   
C)   
D)   
E)

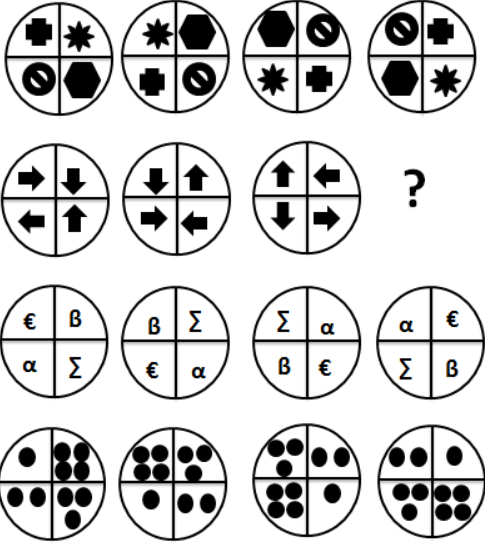
14.

$$\begin{aligned} \text{circle} \quad \text{circle} &= \text{rectangle} \text{ rectangle} \text{ rectangle} \text{ rectangle} \text{ rectangle} \\ \text{rectangle} \quad \text{rectangle} &= \text{triangle} \text{ triangle} \text{ triangle} \text{ triangle} \\ \text{circle} \quad \text{rectangle} &= ? \end{aligned}$$

- A)   
B)   
C)   
D)   
E)

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15.



- A)
- B)
- C)
- D)
- E)

16.



Verilen küpün açılımı aşağıdaki seçeneklerden hangisi olabilir?

Which of the followings is the expansion of the given cube?

أي مما يلي هو توسيع المكعب المحدد؟

- A)
- B)
- C)
- D)
- E)

17.

|   |    |    |     |
|---|----|----|-----|
| 3 | 11 | 35 | 107 |
| 4 | 14 | ?  | 134 |

- A) 36  
B) 42  
C) 44  
D) 66  
E) 73

18.

|    |    |    |
|----|----|----|
| 42 | 16 | 6  |
| 29 | A  | 1  |
| 33 | 27 | 49 |

→ A=?

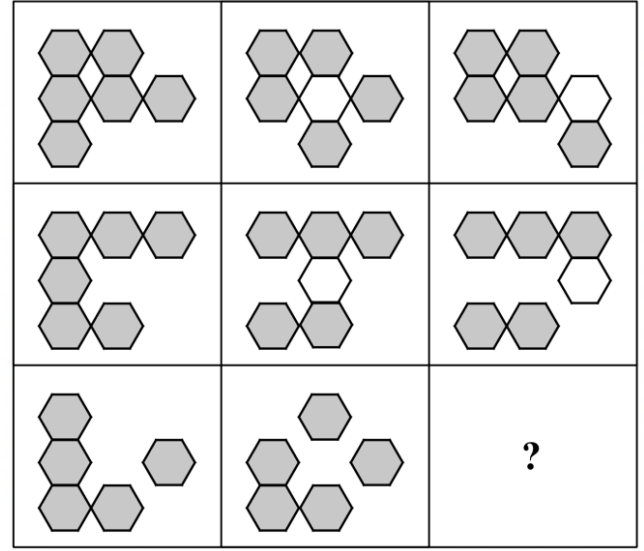
- A) 81  
B) 64  
C) 27  
D) 8  
E) 3

19.

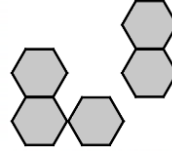
|    |   |    |
|----|---|----|
| 7  | 4 | 21 |
| 9  | 2 | 63 |
| 10 | 3 | ?  |

- A) 30  
B) 50  
C) 55  
D) 70  
E) 84

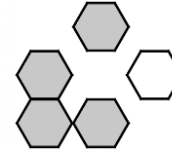
20.



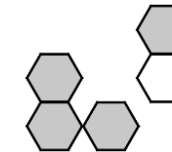
A)



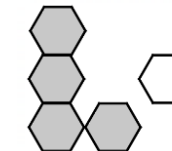
B)



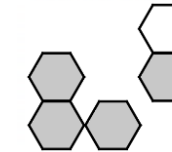
C)



D)



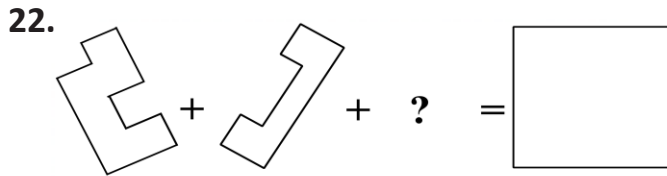
E)

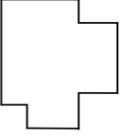
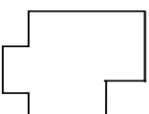
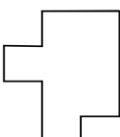
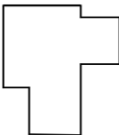
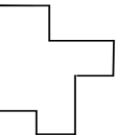




21.  $10\ 6 \rightarrow 4$   
 $32\ 5 \rightarrow 2$   
 $45\ 7 \rightarrow 3$   
 $79\ 2 \rightarrow 1$   
 $98\ 9 \rightarrow ?$

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

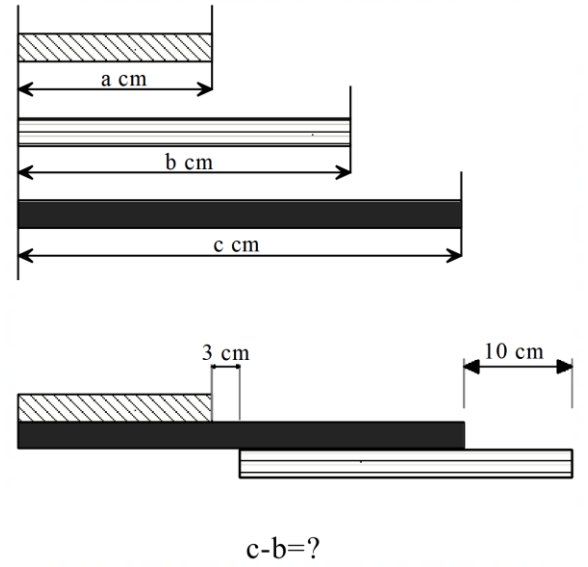


- A)  B)  C)   
D)  E) 

23.  $2\ 5\ 10\ 17\ 26\ 37\ ?\ 65$

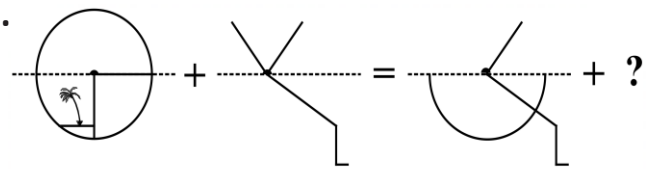
- A) 45  
B) 48  
C) 50  
D) 51  
E) 52

24.



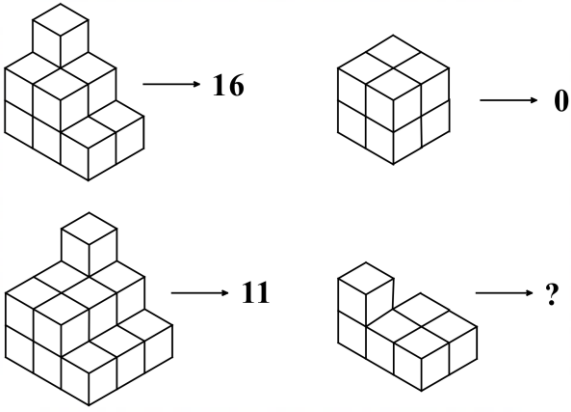
- A)  $13 - a$   
B)  $a - 3$   
C)  $a - 10$   
D)  $a - 7$   
E)  $10 - a$

25.



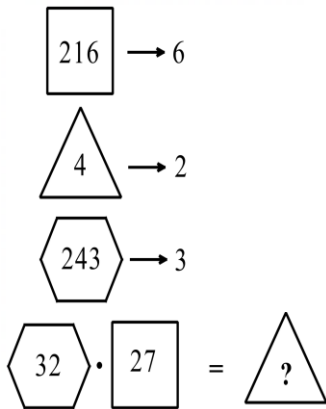
- A)  B)  C)   
D)  E) 

26.



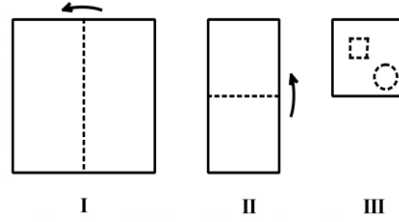
- A) 21  
B) 23  
C) 25  
D) 26  
E) 27

27.



- A)  $\sqrt{6}$   
B) 6  
C) 12  
D) 18  
E) 36

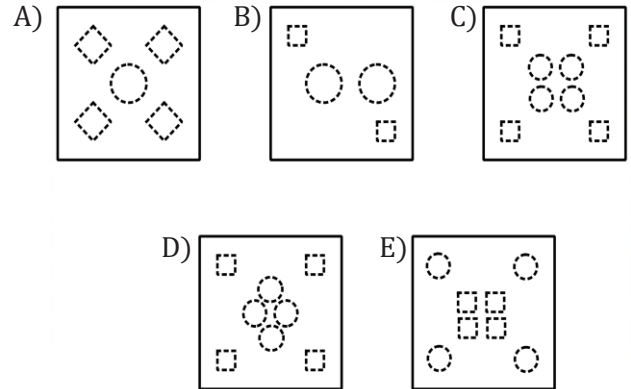
28.



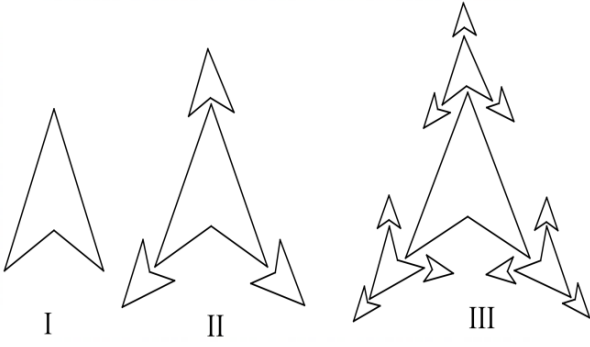
Kare şeklindeki bir kağıt önce I, sonra II'deki gibi işaretli yerlerden katlanarak III'teki şekil elde ediliyor. III'te gösterilen kesikli bölgeler kesilip atıldıktan sonra kağıt açılırsa oluşan şekil hangisi gibi olur?

A square-shaped paper is folded from the marked places as in I, and then in II, and finally figure III is obtained. If the paper is opened after the dashed areas shown in 3 are cut and discarded, which shape will it be like?

ورقة موجودة على شكل مربع، أولاً تطوى الورقة على حسب المشار في الشكل الأول، ثم تطوى أيضاً حسب الشكل الثاني، فيظهر ما تم رسمه في الشكل الثالث فلو قُصَّت أماكن اللون الأبيض الظاهرة في الشكل الثالث ثم فُتحت الورقة، ما هو الشكل الذي سيظهر في الورقة؟



29.



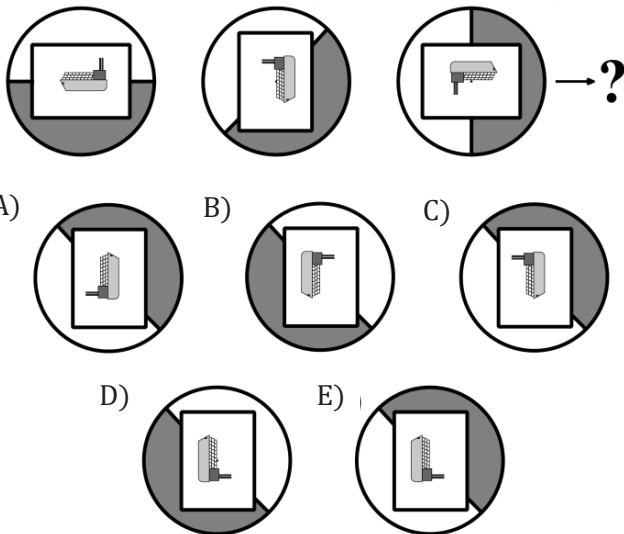
Adım I, II ve III'te verilen şekiller belli bir kurala göre oluşturulmuştur. Buna göre V. adımda kaç tane dörtgen vardır?

The shapes given in steps I, II and III are formed according to a certain rule. How many quadrilaterals are there in step V?

في الخطوات I و II و III يتم تشكيل أشكالاً رباعية وفقاً لقاعدة معينة. وفقاً لذلك كم عدد الأشكال الرباعية الموجودة في الخطوة V؟

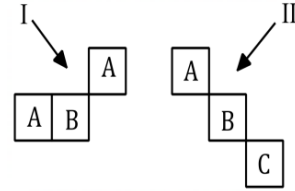
- A) 40
- B) 48
- C) 13
- D) 121
- E) 144

30.



31.

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 1 | 5 | 6 | 4 | 8 | 1 | 6 |
| 4 | 2 | 5 | 1 | 8 | 6 | 8 |
| 3 | 4 | 1 | 8 | 6 | 1 | 5 |
| 5 | 4 | 6 | 4 | 6 | 4 | 1 |
| 2 | 5 | 8 | 6 | 5 | 3 | 2 |
| 8 | 3 | 5 | 4 | 5 | 8 | 6 |
| 8 | 2 | 1 | 5 | 2 | 1 | 4 |



Şekil I ve II yukarıdaki tablonun farklı birer parçasıdır. Her harf farklı bir rakamı göstermektedir.

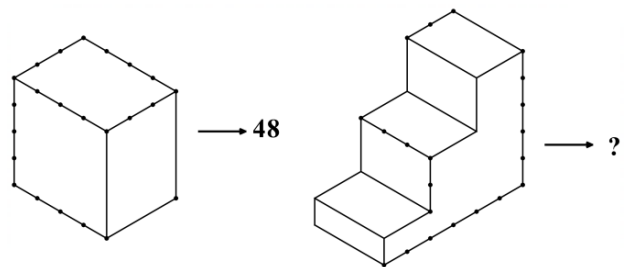
I and II are different parts of the above table. Each letter represents a different number.

يمثل كل حرف رقماً مختلفاً. I و II هما جزءان منفصلان من الجدول أعلاه.

$$A + B + C = ?$$

- A) 10
- B) 11
- C) 12
- D) 13
- E) 15

32.



- A) 36
- B) 54
- C) 64
- D) 72
- E) 84

33. Verilen 5x5 tabloda 1'den 5'e kadar olan rakamlar her satırda ve her sütunda birer kez kullanılmıştır. Buna göre aşağıdakilerden hangileri doğrudur?

In the 5x5 table, the numbers from 1 to 5 are used once in each line and each column. Accordingly, which of the following is true?

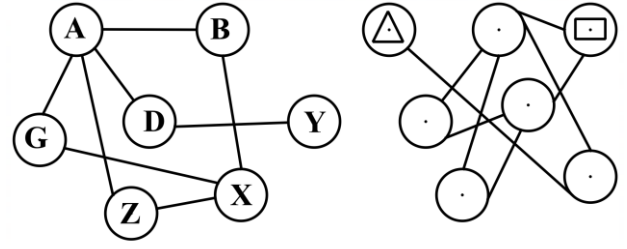
في الجدول 5 × 5 المحدد ، يتم استخدام الأرقام من 1 إلى 5 مرة واحدة في كل صف وفي كل عمود. وفقاً لذلك ، أي مما يلي صحيح؟

|   |   |   |   |   |
|---|---|---|---|---|
| A | 1 | 5 |   | 3 |
|   |   | B | 3 | 5 |
| C | 3 | 4 |   | 1 |
| 1 |   | 3 | 5 | D |
| 3 | 5 | E | 1 | 4 |

- I.  $A.B + C = 13$
- II.  $B - C + D = -2$
- III.  $A + E.D = 6$
- IV.  $C + E^B = 7$
- V.  $C = 1$

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

34.



$$\triangle \square = ?$$

- A) AX  
B) ZY  
C) YB  
D) DG  
E) YA

35.

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 5 | A |   | 4 | 2 |
| 4 | B | 6 |   | 5 |   |
| C | 3 | 2 |   | 6 | 1 |
|   |   | 4 | 3 | D | 5 |
|   |   | 1 | 5 |   | E |
| 3 | 6 |   | 2 | F | 4 |

6x6 tabloda 1'den 6'ya kadar olan rakamlar her satırda ve her sütunda birer kez kullanılmıştır.

In the 6x6 table, the numbers from 1 to 6 are used once in each line and in each column.

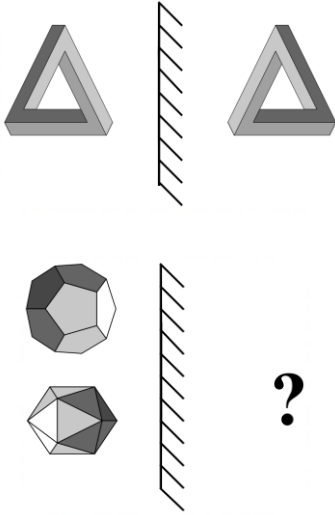
في الجدول 6 × 6 ، يتم استخدام الأرقام من 1 إلى 6 مرة واحدة في كل صف وفي كل عمود.

$$(A + B + C)^{D+E+F} = ?$$

- A)  $10^8$   
B)  $10^9$   
C)  $10^{10}$   
D)  $10^{11}$   
E)  $10^{12}$



36.



A)



B)



C)



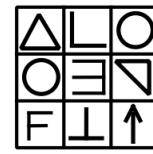
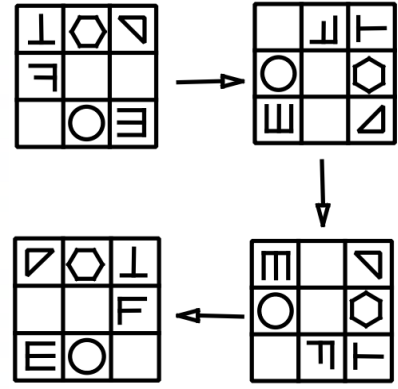
D)



E)

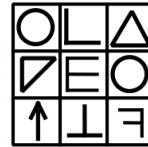


37.

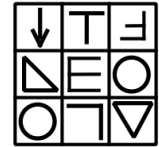


?

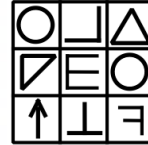
A)



B)



C)



D)

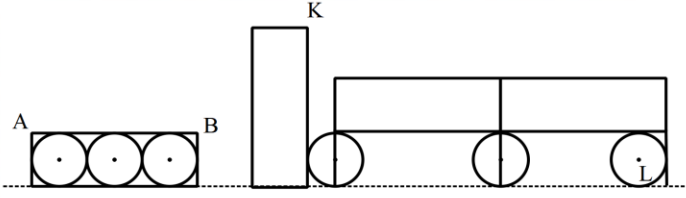


E)



38. Şekilde verilen dikdörtgenler ve çemberler kendi aralarında özdeşdir.  
The rectangles and circles given in the figure are identical.

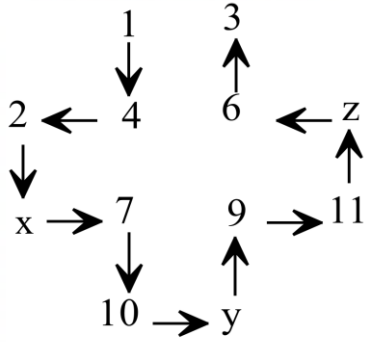
المستطيلات والدوائر الواردة في الشكل متطابقة فيما بينها.



$$|AB| = 6 \text{ cm}, |KL| = x \text{ cm} \Rightarrow x = ?$$

- A) 13  
B) 12  
C) 11  
D) 10  
E) 9

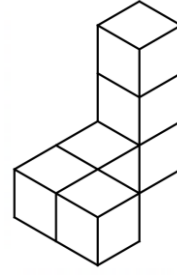
39.



$$x + y + z = ?$$

- A) 19  
B) 22  
C) 23  
D) 25  
E) 26

40.



Verilen yapının üstten görünümü hangisidir?

What is the top view of the given structure?

ما هو المنظر العلوي للهيكل المحدد؟

- A)
- B)
- C)
- D)
- E)

## SINAV KURALLARI

- 1) Sınavın ilk 30 dakikası ve son 5 dakikasında sınavınızı bitirseniz bile sınav salonundan dışarı çıkamazsınız.
  - 2) Sınav salonunda, sıranızın altında, üstünde, çevrenizde kitap, ders notu, tablet, bilgisayar, cep telefonu vb. bulunamaz, kesinlikle hiçbir evrakın fotoğrafı çekilemez.
  - 3) Sınav süresince görevlilerle konuşmak, onlara soru sormak veya sorular hakkında fikir alışverişinde bulunmak yasaktır. Sınav görevlileri sınav sürecinde yerinizi değiştirebilir ve sınavın sağlıklı yürütülmesine yönelik düzenlemeleri sınavın düzenini bozmayacak şekilde gerçekleştirebilir.
  - 4) Size verilen kitapçıkta ve cevap kâğıdında, doldurmanız gereken tüm alanları doldurmanız ve imza atmanız gereken yerlere imza atmanız sınavınızın geçerli sayılabilmesi için gereklidir.
  - 5) Sınav süresince, kitapçık üzerindeki soruları veya şıkları bir kâğıt vb. üzerine yazmanız, fotoğrafını çekmeniz ve dışarı çıkarmanız yasaktır.
  - 6) Sınav süresince, silgi kalem vb. alışverişi, her türlü kopya girişimi ve sınav düzenini bozabilecek her türlü davranış yasaktır.
  - 7) Sınav kurallarına aykırı hareket eden öğrenciler hakkında bireysel sınav iptal tutanağı sınav görevlileri tarafından düzenlenecek olup sınavları iptal edilecektir.
  - 8) Sınavınız bittiğinde, çıkabileceğiniz saat aralıklarındaysanız, sınav evraklarınızı (soru kitapçığınızı ve cevap kâğıtlarınızı) salondan çıkmadan önce sınav görevlilerine teslim edip çıkabilirsiniz.
  - 9) Sınav süresince, sigara vb. her türlü tütün ürünü ve elektronik sigara içilmesi yasaktır.
- ## BAŞARILAR

## EXAMINATION RULES

- 1) Though you complete the exam, you are not allowed to leave the exam hall during the first 30 minutes and last 5 minutes.
- 2) Any kind of books, lecture notes, tablets, computers, mobile phones, etc. cannot be put under and over the desk or around you in the exam hall, and no photographs of any document can be taken.
- 3) It is forbidden to talk to the supervisors, ask them questions or exchange ideas about the questions. The supervisors can change your seat during the exam and make the arrangements to provide the healthy execution of the exam in such a way as not to disturb the order of the exam.
- 4) It is required to fill all the blanks you are supposed to and sign where provided on the exam booklet and answer sheet you are given in order for your exam to be considered valid.
- 5) During the exam, it is forbidden to write the questions and options in the exam booklet on any paper, take their photo and take them out.
- 6) The exchange of pencil, rubber etc., any attempt to cheat and any behaviour to disturb the exam order are forbidden.
- 7) An exam cancellation report will be prepared by the supervisors for the students who behave against the exam rules, and their exam will be cancelled.
- 8) When you finish your exam, you can submit your exam documents (exam booklet and answer sheet) to the supervisors before you leave the hall if you are at the appropriate intervals to leave.
- 9) During the examination, smoking of all kinds of tobacco products and electronic cigarettes is forbidden.

## القواعد الامتحانية

- 1 - لا يسمح بمغادرة قاعة الامتحان خلال أول 30 دقيقة أو خلال آخر 5 دقائق من الامتحان .
- 2 - لا يسمح أن تأخذ معك إلى قاعة الامتحان أو أن تضع تحت أو فوق أو بالقرب من مقعد الامتحان الخاص بك ما يلي : الكتب والملاحظات والأوراق والأجهزة اللوحية والهواتف المحمولة أو أجهزة الكمبيوتر وما شابه ذلك , ويمنع منعاً باتاً التقاط أي صورة لأوراقك .
- 3 - يمنع التحدث إلى المراقبين أو طرح الأسئلة عليهم أو تبادل الأفكار معهم عن الأسئلة خلال فترة الامتحان , يمكن للمراقبين تغيير مقعدك أثناء فترة الامتحان واتخاذ الإجراءات اللازمة لتطبيق سليم وسلس للامتحان بطريقة لا تخرب الامتحان
- 4 - من الضروري ملء جميع الحقول التي يتعين عليك تعبئتها وتوقيع الأماكن التي تتطلب منك التوقيع في كل من كتيب وورقة الإجابة المعطاة لكي يعتبر امتحانك مقبولاً .
- 5 - يمنع منعاً باتاً كل من التصوير أو كتابة الأسئلة أو الخيارات المتعددة الموجودة في الكتب على ورقة مستقلة أو ما شابه وأخذها إلى خارج قاعة الامتحان .
- 6 - خلال فترة الامتحان يمنع تبادل الأقلام والمحايات وما شابه ذلك , ويمنع أيضاً أي نوع من محاولات الغش وأي نوع من السلوكيات التي تخل بنظام الامتحان .
- 7 - سيسجل المراقبون أسماء الطلاب الذين ينتهكون القواعد الامتحانية في تقرير شخصي لإلغاء الامتحان وسيتم اعتبار امتحان هؤلاء الطلاب ملغياً .
- 8 - عندما تنتهي من الامتحان يجب عليك تسليم أوراق الامتحانات الخاصة بك (كتيب الأسئلة وأوراق الإجابة) للمراقبين قبل مغادرة قاعة الامتحان .
- 9 - يمنع منعاً باتاً التدخين أثناء الامتحان , وذلك يشمل جميع أنواع منتجات التبغ والسجائر الإلكترونية وما شابه ذلك .

## CEVAPLAR

## Temel Matematik

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| E | B | E | B | C | C | E | D | C | E  | D  | A  | B  | A  | B  | D  | C  | A  | D  | E  | D  | D  | C  | D  | A  | A  | E  | E  | E  | B  | D  | A  | C  | B  | A  | A  | C  | B  | B  | C  |

### Genel Yetenek

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| A | E | A | B | A | D | E | B | D | A  | B  | E  | D  | E  | B  | B  | C  | A  | D  | C  | A  | C  | C  | D  | B  | A  | E  | C  | D  | E  | C  | B  | C  | C  | B  | E  | C  | A  | D  | E  |