



سعادت آباد - بلوار دریا - روبروی خیابان صرافها - پلاک 54 - واحد 10





GAÜNYÖS 2023

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.

$$\frac{7}{6} + \frac{7}{8} - \frac{1}{3} = a \Rightarrow \frac{4}{3} + \frac{1}{8} - \frac{1}{6} = ?$$

- A) $a - 3$
- B) $a - 1$
- C) a
- D) $2 - a$
- E) $3 - a$

2.

$$\frac{0,15}{0,2 + \frac{0,04}{0,8}} = ?$$

- A) 0,2
- B) 0,3
- C) 0,6
- D) 0,7
- E) 0,9

3.

$$3^x = 4 \Rightarrow 9^x - 3^{x+1} = ?$$

- A) 4
- B) 6
- C) 8
- D) 10
- E) 12

4.

$$A = \sqrt{2^8 - 2^5 + 1} \Rightarrow \sqrt[4]{A^2 + 2A + 1} = ?$$

- A) 16
- B) 15
- C) 8
- D) 6
- E) 4

5.

$$x < 0, |-x| \cdot |3 - 6| + |(-2) - 4| = 21 \\ \Rightarrow x = ?$$

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

6.

$$\frac{x^2 - 2x - 3}{(\frac{1}{x} + 1) \cdot (\frac{x}{3} - 1)} = ?$$

- A) $-2x^2$
- B) $-x^2$
- C) $x - 1$
- D) $x + 1$
- E) $3x$

7.

$$\left. \begin{array}{l} a^2 = 7a + b \\ b^2 = a + 7b \\ a \neq b \end{array} \right\} \Rightarrow \sqrt{a^2 + b^2 - 12} = ?$$

- A) 1
- B) 3
- C) 6
- D) 7
- E) 14



8.

$$\left. \begin{aligned} \frac{a}{5} = \frac{b-a}{4} = \frac{c-b}{6} \\ a+b+c=58 \end{aligned} \right\} \Rightarrow c=?$$

- A) 30
- B) 18
- C) 10
- D) 5
- E) 2

9.

$$\left. \begin{aligned} a + \frac{4}{b} = 7 \\ b + \frac{4}{a} = 9 \end{aligned} \right\} \Rightarrow \frac{a}{b}=?$$

- A) $\frac{7}{4}$
- B) $\frac{4}{7}$
- C) $\frac{7}{9}$
- D) $\frac{9}{7}$
- E) $\frac{4}{9}$

10.

$$\frac{3x+12}{x-7} - \frac{x}{x+3} = 2 - \frac{14}{7-x} \\ \Rightarrow x=?$$

- A) $-\frac{18}{11}$
- B) $\frac{57}{25}$
- C) $-\frac{22}{13}$
- D) $\frac{18}{25}$
- E) $-\frac{12}{19}$

11.

$$\left. \begin{aligned} 4^{x+3y} = \left(\frac{1}{8}\right)^{-y} \\ 27^{2x+y} = \left(\frac{1}{81}\right)^3 \end{aligned} \right\} \Rightarrow 2^x \cdot 3^y=?$$

- A) $\frac{1}{72}$
- B) $\frac{4}{27}$
- C) $\frac{8}{9}$
- D) $\frac{9}{8}$
- E) $\frac{27}{4}$

12.

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

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

13.

50 kişinin bulunduğu bir otobüste, bir erkek yolcunun kendisi dışındaki diğer erkek yolcuların sayısı, kadın yolcuların sayısından 19 fazladır. Buna göre, otobüste kaç tane kadın yolcu vardır?

In a bus with 50 people, the number of male passengers other than one male passenger is 19 more than the number of female passengers. Accordingly, how many female passengers are there on the bus?

يوجد في الحافلة خمسون راكباً، عدد المسافرين الذكور غير الراكب نفسه أكثر من عدد المسافرين الاناث بتسعة عشر راكباً، بناء على ذلك كم عدد المسافرين الاناث الموجودات في الحافلة؟

- A) 15
B) 16
C) 34
D) 35
E) 36

14.

Bir bankanın farklı iki hesabında 2400 TL ve 2000 TL para bulunmaktadır. Bu hesapların her birinden eşit miktarda dörder defa para çekilince geriye kalan paranın miktarları oranı 3 oluyor. Buna göre her bir hesaptan bir seferde çekilen para kaç liradır?

There are 2400 TL and 2000 TL in two different accounts of a bank. When an equal amount of money is withdrawn from each of these accounts four times, the ratio of the remaining money amounts to 3. Accordingly, how much money is withdrawn from each account at one time?

يوجد في رصيد حسابين مختلفين للبنك ٢٤٠٠ و ٢٠٠٠ ليرة التركية، تم سحب مبلغ بمقدار مساوٍ أربع مرات لكل من هذين الحسابين ويبقى في الرصيد ٣ ليرة تركية، بناء على ما تقدم ما مقدار المبلغ المسحوب في مرة واحدة من كل حساب؟

- A) 150
B) 250
C) 450
D) 750
E) 900

15.

$\oplus$	3	4	5	6	7
3	15	19	23	27	X
4	19	24	Y	34	39
5	23	Y	35	Z	47
6	27	34	Z	48	55
7	X	39	47	55	63

$$X+Y+Z=?$$

- A) 69
B) 79
C) 89
D) 99
E) 101



16.

$$P(3x) = 9x^2 + 3x + 1 \Rightarrow \begin{array}{r} P(x) \quad | \quad x-2 \\ \hline \end{array}$$

?

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

17.

$$P(x) = (x^2 + 6x) \cdot (x^2 + 6x - 2) - 35 \Rightarrow a = ?$$

$$a > 0, P(a) = 0$$

- A) 7
- B) 5
- C) 3
- D) 2
- E) 1

18.

$$A * B = (A \cup B) - (A \cap B)$$

$$\Rightarrow (A * B)' \cup (A \cap B)' = ?$$

- A) $A \cap B$
- B) $A \cup B$
- C) $E - A$
- D) $E - (A \cup B)$
- E) A'

19.

$$x, k \in \mathbb{N}; A_x = \{x-2, x-1, x, x+1, x+2\}$$

$$\Rightarrow n(A_k \cap A_{k+1} \cap A_{k+2}) = ?$$

- A) 0
- B) 1
- C) 2
- D) 3
- E) 4

20.

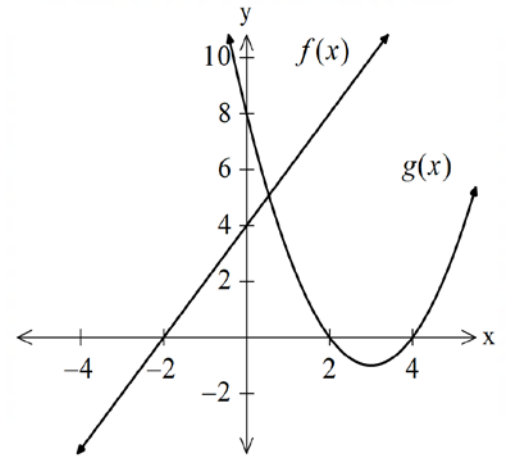
f, g ve h birebir ve örten fonksiyonlardır.
f, g, and h are one-to-one and onto functions.

وظائف متساوية، ومشتتة، و h و g و f

$$\left. \begin{array}{l} (g^{-1} \circ f)(a) = c \\ (f^{-1} \circ h)(b) = a \end{array} \right\} \Rightarrow g(c) = ?$$

- A) a
- B) b
- C) c
- D) $f(b)$
- E) $h(b)$

21.



$$f(x) + g(x) = ?$$

- A) $2x + 4$
- B) $x^2 - 4x + 12$
- C) $x^2 - 6x + 8$
- D) $-2x + 4$
- E) $x^2 - 2x + 4$

22.

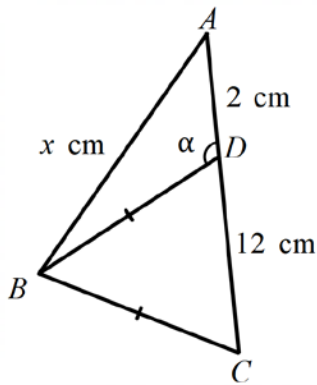
$$f: \mathbb{R} \rightarrow \mathbb{R}$$

$$f(x) = -2x^3 + 4x^2 - 2x + 1$$

$$\Rightarrow x^3 \cdot f\left(\frac{1}{x}\right) = ?$$

- A) $x^3 - 2x^2 + 4x - 2$
- B) $5x^3 - x^2 + 2x - 3$
- C) $2x^3 - 4x^2 + 1$
- D) $2x^3 + 4x^2 - 1$
- E) $x^3 - 2x$

23.



$$\begin{aligned} |BD| &= |BC| \\ |AD| &= 2 \text{ cm} \\ |DC| &= 12 \text{ cm} \\ \tan \alpha &= -1 \\ |AB| &= x \text{ cm} \\ x &= ? \end{aligned}$$

- A) 6
- B) 8
- C) 10
- D) 12
- E) 14

24.

$$x \in \left(0, \frac{\pi}{2}\right)$$

$$\frac{1}{\cos x} - \sin x \cdot \tan x = ?$$

- A) $\cos x$
- B) $-\sin x$
- C) $\sin x$
- D) $-\cos x$
- E) $-\cot x$

25.

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

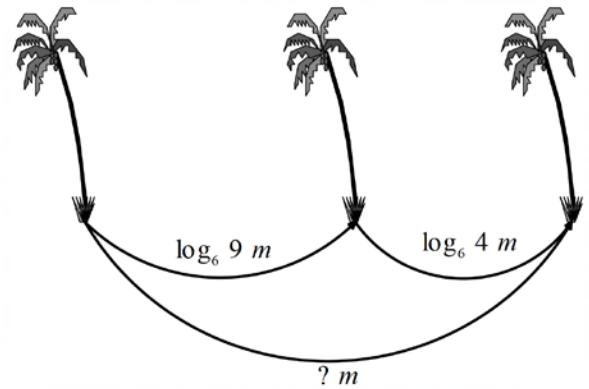
$$f(x) = 3^x + a^3$$

$$f(3) = 2 \cdot f(2) + 1$$

$$\Rightarrow a = ?$$

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

26.



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

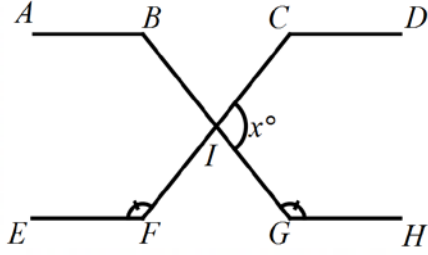
27.

$$\left. \begin{aligned} \log_x 2x &= 2 \\ \log_y 16 &= 4 \end{aligned} \right\} \Rightarrow \log_x y = ?$$

- A) 1
- B) 2
- C) 4
- D) 8
- E) 16



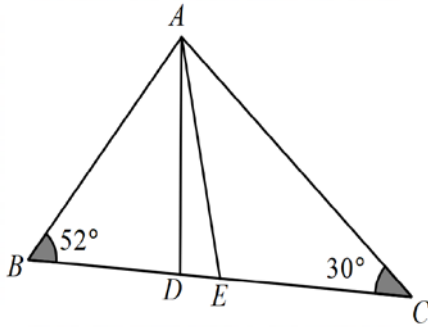
28.



$[AB] \parallel [EF], [AB] \parallel [GH], [CD] \parallel [EF]$
 $m\angle(BGH) = m\angle(CFE) = 124^\circ$
 $m\angle(CIG) = x^\circ \Rightarrow x = ?$

- A) 112
 B) 56
 C) 124
 D) 68
 E) 44

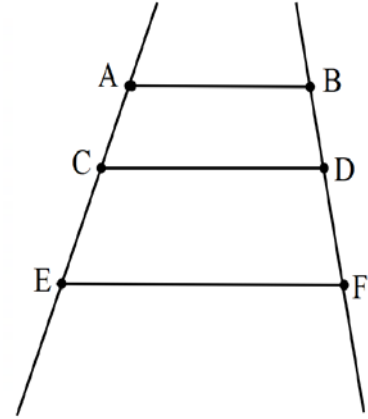
29.



$m\angle(BAE) = m\angle(EAC)$
 $[AD] \perp [BC]$
 $\Rightarrow m\angle(DAE) = ?$

- A) 82°
 B) 44°
 C) 22°
 D) 11°
 E) 12°

30.



$[AB] \parallel [CD] \parallel [EF]$

$2 \cdot |AC| = |EC|, |BF| = 9 \text{ br}$

$\Rightarrow |BD| = x \text{ br}$

$x = ?$

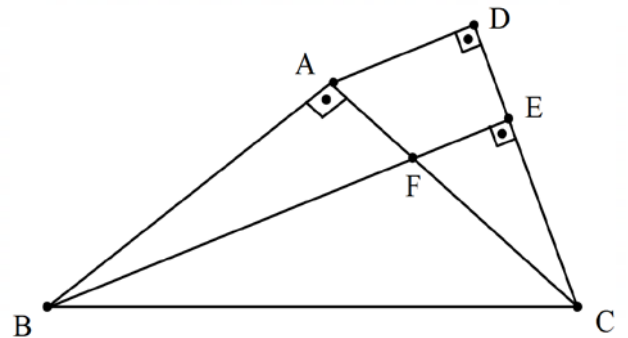
- A) 1
 B) 2
 C) 3
 D) 4
 E) 5

31.

ABC, ADC ve BEC dik üçgendir.

ABC, ADC, and BEC are right triangles.

قائمة مثلثات ABC و ADC و BEC



$|AB| = |AC| = 10 \text{ cm}, |EB| = 14 \text{ cm}$

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

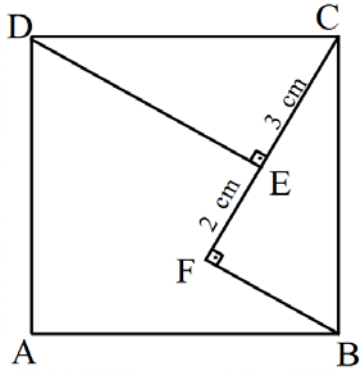
- A) 20
 B) 24
 C) 30
 D) 36
 E) 64

32.

ABCD bir karedir.

ABCD is a square.

ABCD هو مربع.



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

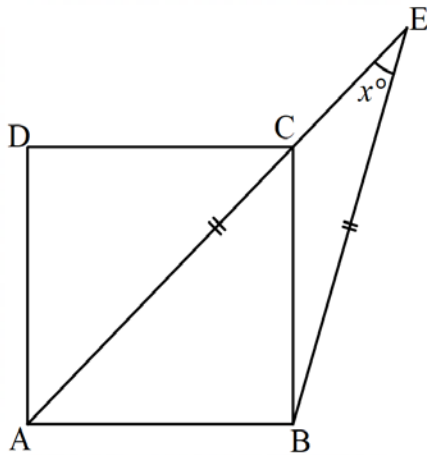
- A) 32
B) 34
C) 36
D) 38
E) 40

33.

ABCD bir karedir.

ABCD is a square.

ABCD هو مربع.



$$|AC| = |BE|$$

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

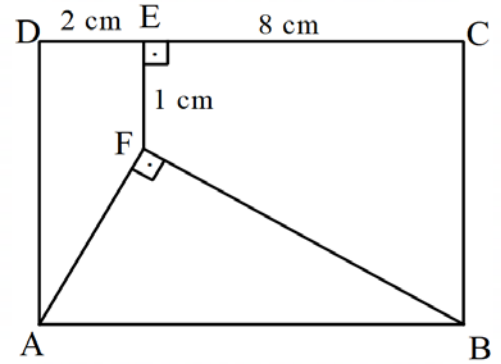
- A) 15
B) 22,5
C) 30
D) 45
E) 60

34.

ABCD bir dikdörtgendir

ABCD is a rectangle.

ABCD هو مستطيل.

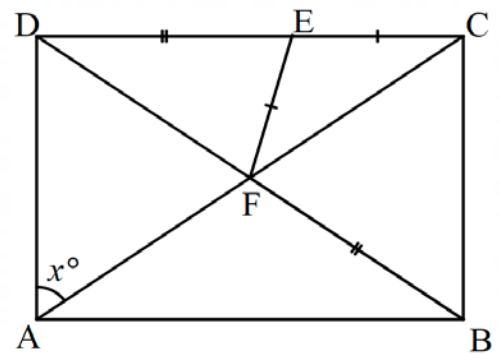


$$|DE| = 2 \text{ cm}, |EC| = 8 \text{ cm}, |EF| = 1 \text{ cm}$$

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

- A) 36
B) 40
C) 48
D) 50
E) 60

35.

ABCD dikdörtgen, $[DB]$ ve $[AC]$ köşegendir.ABCD is a rectangle, $[DB]$ and $[AC]$ are diagonals.ABCD مستطيل ، قطرين $[DB]$ و $[AC]$ 

$$|DE| = |FB|, |EF| = |EC|$$

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

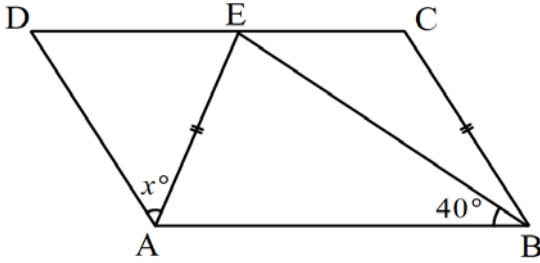
- A) 36
B) 40
C) 44
D) 48
E) 54

36.

ABCD paralel kenardır.

ABCD is a parallelogram.

ABCD هو متوازي أضلاع.



$$|AE| = |BC|, |EB| = |DC|,$$

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

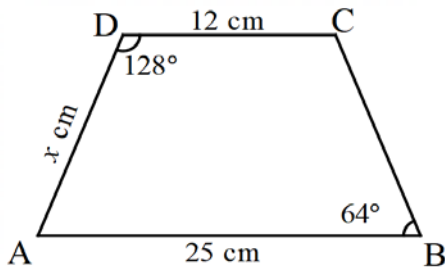
- A) 25
- B) 30
- C) 35
- D) 40
- E) 50

37.

ABCD yamuktur.

ABCD is trapezoidal.

ABCD هو شبه منحرف.



$$|DC| = 12 \text{ cm}, |AB| = 25 \text{ cm}$$

$$m\angle(ADC) = 128^\circ, m\angle(CBA) = 64^\circ$$

$$|AD| = x \text{ cm} \Rightarrow x = ?$$

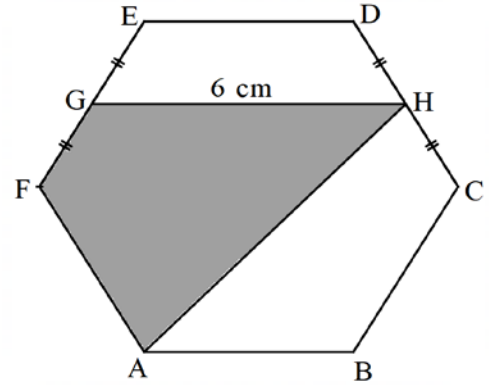
- A) 10
- B) 12
- C) 13
- D) 14
- E) 15

38.

ABCDEF düzgün altıgendir.

ABCDEF is a regular hexagon.

ABCDEF هو سداسي منتظم.



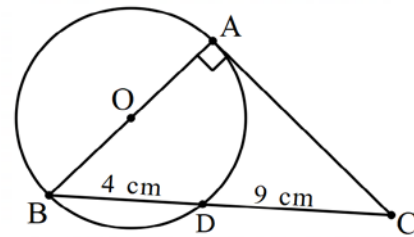
$$|EG| = |GF| = |DH| = |HC|$$

$$|GH| = 6 \text{ cm},$$

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

- A) $4\sqrt{3}$
- B) $7\sqrt{2}$
- C) $8\sqrt{3}$
- D) $11\sqrt{2}$
- E) $11\sqrt{3}$

39.



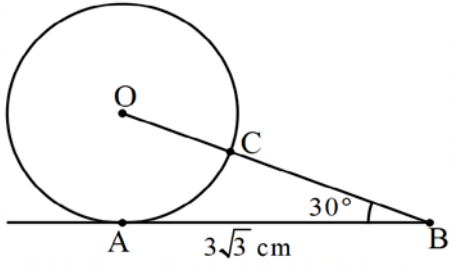
[AB] çaplı çember verilmiştir. Buna göre O merkezli çemberin yarıçapı kaç cm'dir?

The circle with diameter [AB] is given. Accordingly, what is the radius (cm) of the circle with center O?

مركزها التي الدائرة قطر نصف ما O.[AB] بقطر الدائرة

- A) 6
- B) $\sqrt{13}$
- C) 10
- D) $2\sqrt{3}$
- E) 15

40.



O merkezli dairenin alanı kaç cm^2 'dir?

What is the area (cm^2) of the circle with center O?

كم مساحة دائرة مركزها صفر؟

- A) 2π
- B) 3π
- C) 4π
- D) 9π
- E) $3\pi\sqrt{3}$



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.

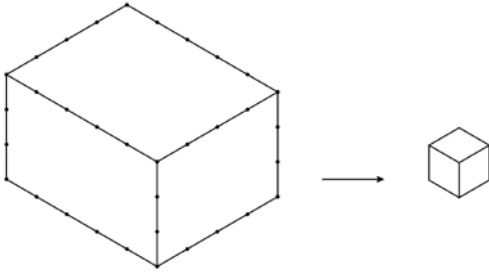
GENERAL APTITUDE TEST

- 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.



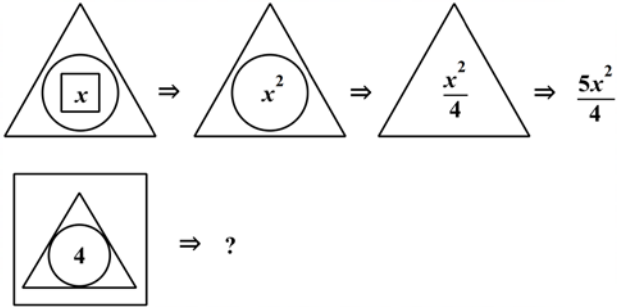
Şekilde kaç birim küp vardır?

How many unit cubes are there in the figure?

كم عدد المكعبات في الشكل ؟

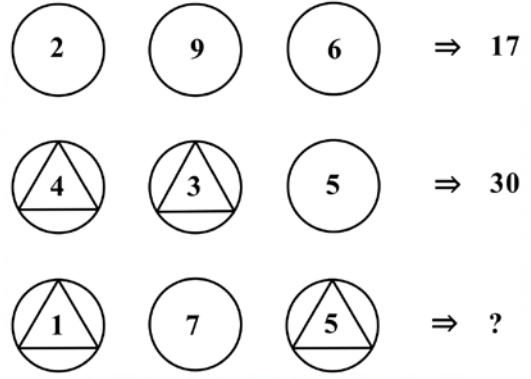
- A) 40
- B) 50
- C) 60
- D) 70
- E) 80

2.



- A) 1
- B) 5
- C) 20
- D) 25
- E) 64

3.



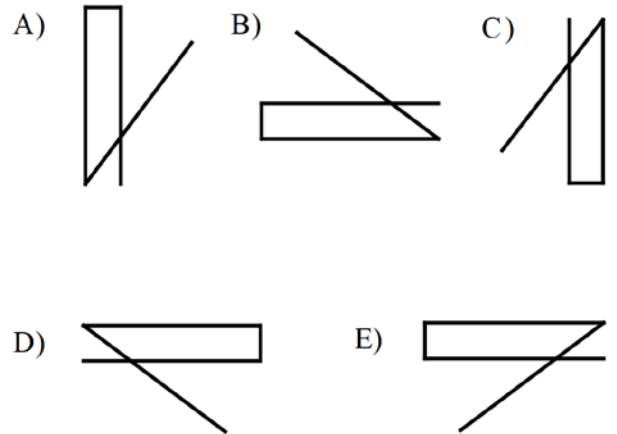
- A) 24
- B) 27
- C) 29
- D) 30
- E) 33

4.

Aşağıdakilerden hangisi diğerlerinden farklıdır?

Which of the images is different from the others?

أي من الصور المقدمة تختلف عن الصور الأخرى؟





5.

MASAL 91347
 METAL 31946
 SELAM 34746 $\Rightarrow$ SELAM = ?
 TEMAS 71643
 SALEM 74613

- A) 91347
 B) 41249
 C) 74483
 D) 71153
 E) 71643

6.

3 4 5 } $\blacktriangle$ * $\square$
 2 1 6 } $\circ$ $\blacklozenge$ ∇
 5 4 3 } Δ $\bullet$ ∇
 8 7 9 } $\square$ * $\blacktriangle$
 6 1 2 } ∇ $\bullet$ Δ

879 = ?

- A) $\blacktriangle$ $\blacklozenge$ $\square$
 B) $\circ$ $\blacklozenge$ ∇
 C) Δ $\bullet$ ∇
 D) $\square$ * $\blacktriangle$
 E) ∇ $\bullet$ Δ

7.

T A S A } $\blacktriangle$ Δ
 K A T A } $\circ$ ∇
 S A N A } $\blacktriangle$ ∇
 S A K A } $\circ$ $\blacktriangle$
 T A K A } ∇ $\circ$

TAKA = ?

- A) $\blacktriangle$ Δ
 B) $\circ$ ∇
 C) $\blacktriangle$ ∇
 D) $\circ$ $\blacktriangle$
 E) ∇ $\circ$

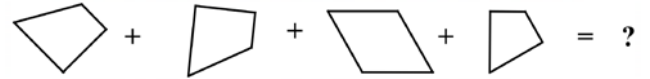
8.

Δ	a	b	c
a		$\frac{1}{6}$	
b			$\frac{\sqrt{6}}{18}$
c	$\frac{\sqrt{6}}{12}$		

 $\Rightarrow c^2 = ?$

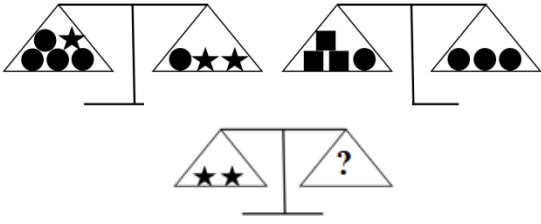
- A) $\frac{1}{2}$
 B) $\frac{1}{\sqrt{3}}$
 C) $\frac{1}{6}$
 D) $\frac{1}{2\sqrt{2}}$
 E) $\frac{1}{3\sqrt{2}}$

9.



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

10.



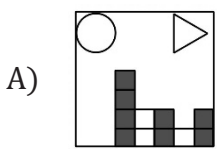
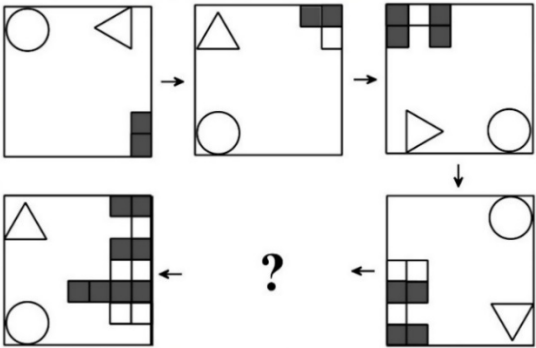
Terazinin denge durumunda olması için sağ kefeye ■ türü ağırlıktan kaç tane koymak gerekir?

How many ■-type weights should be put on the right pan for the scale to be in balance?

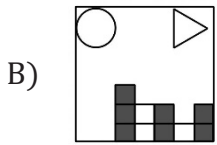
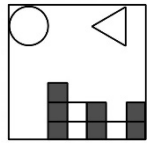
كم عدد الأوزان من النوع ■ التي يجب وضعها على الكفة اليمنى حتى يكون الميزان في حالة توازن؟

- A) 3
- B) 5
- C) 7
- D) 8
- E) 9

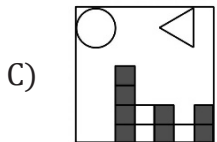
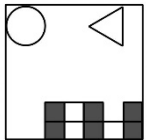
11.



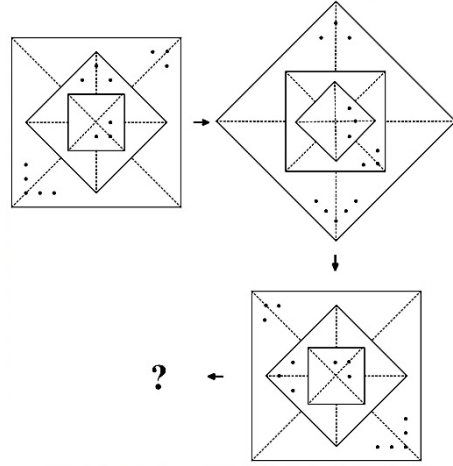
D)



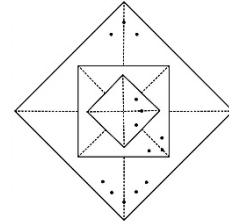
E)



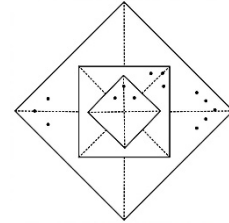
12.



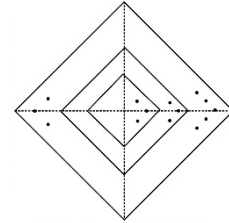
A)



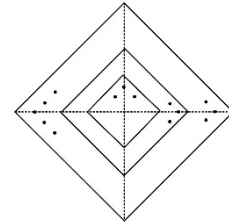
B)



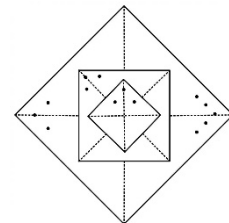
C)



D)



E)





13.

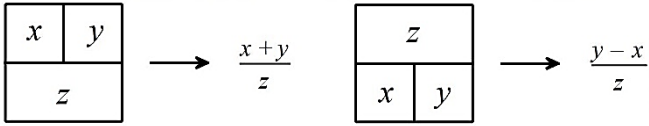
x	a	b	c
a	w	6	
b		y	12
c	8		z

+	a	b	c
a		5	
b			7
c	6		

$$w + y + z = ?$$

- A) 12
B) 15
C) 18
D) 29
E) 32

14.



$$\begin{array}{|c|c|} \hline 3 & 5 \\ \hline \hline 2 \\ \hline \end{array} + \begin{array}{|c|} \hline 3 \\ \hline \hline 1 & 10 \\ \hline \end{array} = ?$$

- A) 6
B) 7
C) 8
D) 9
E) 10

15.

+	●	■	▲
●		●	
■			▲
▲	●●●		

$$\bullet + \blacksquare + \blacktriangle = ?$$

- A) ●●
B) ■■
C) ●●●
D) ■■■
E) ▲▲▲

16.

		4
	6	2
5	3	
1		



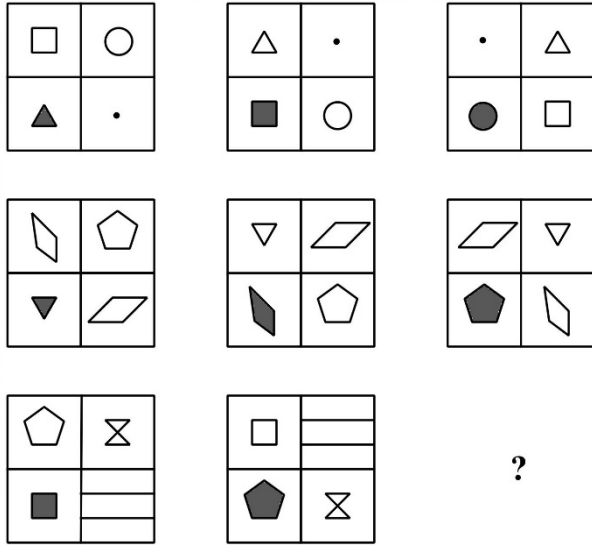
Bir küpün açık ve kapalı halleri verilmiştir. $A+B=10$ olduğuna göre, C'nin alabileceği değerlerin çarpımı kaçtır?

A cube, and cube net are given. If $A+B=10$ what is the multiplication of the values satisfy C?

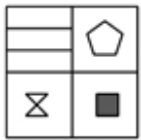
تم إعطاء الحالات المفتوحة والمغلقة للمكعب، بما أن $A+B=10$ ما هو حاصل ضرب القيمة C التي يمكن أن تأخذها؟

- A) 2
B) 5
C) 10
D) 15
E) 24

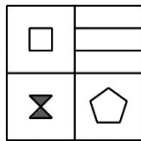
17.



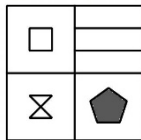
A)



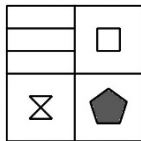
B)



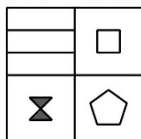
C)



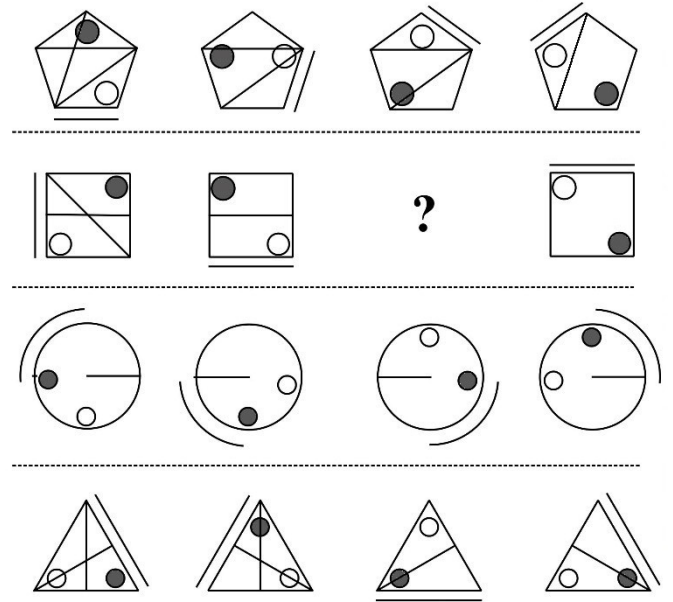
D)



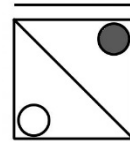
E)



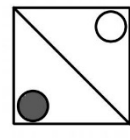
18.



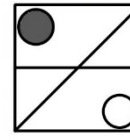
A)



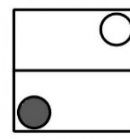
B)



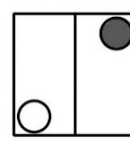
C)



D)



E)





19.

$$\begin{bmatrix} 2 & 5 & 7 & 8 \\ 9 & 15 & 19 & G \end{bmatrix}$$

$$\Rightarrow G = ?$$

- A) 14
- B) 17
- C) 21
- D) 28
- E) 35

20.

$$\begin{bmatrix} 2 & 3 & A \\ B & 7 & 11 \\ 11 & C & 23 \end{bmatrix}$$

$$\Rightarrow A + B + C = ?$$

- A) 20
- B) 22
- C) 23
- D) 25
- E) 32

21.

$$451 \rightarrow 25$$

$$371 \rightarrow 28$$

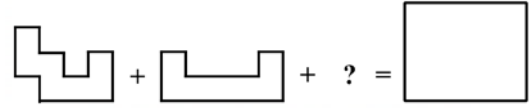
$$535 \rightarrow 30$$

$$623 \rightarrow 18$$

$$246 \rightarrow ?$$

- A) 16
- B) 20
- C) 24
- D) 28
- E) 32

22.



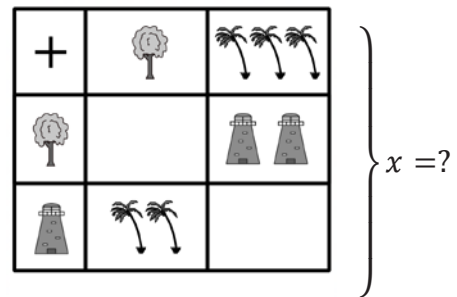
- A)
- B)
- C)
- D)
- E)

23.

$$13 \quad 17 \quad 25 \quad ? \quad 37$$

- A) 29
- B) 30
- C) 31
- D) 32
- E) 33

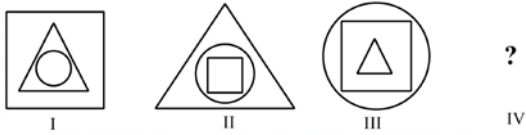
24.



$$\text{lighthouse} + \text{palm tree} = x \cdot \text{tree}$$

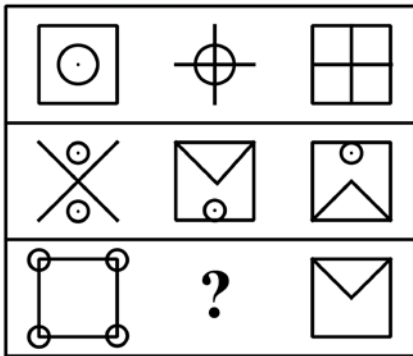
- A) 5
- B) 6
- C) 7
- D) 8
- E) 9

25.



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

26.



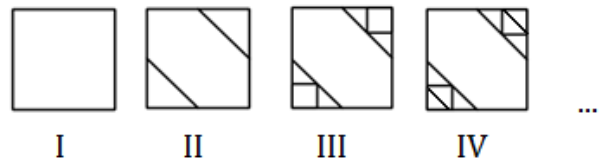
- A)
- B)
- C)
- D)
- E)

27.



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

28.



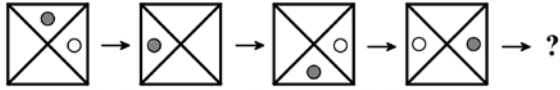
Örüntünün 6. adımında kaç tane üçgen vardır?

How many triangles are there in the 6th step of the pattern?

كم عدد المثلثات الموجودة في الخطوة السادسة من النمط ؟

- A) 8
- B) 18
- C) 24
- D) 32
- E) 36

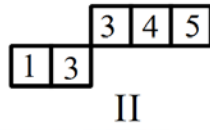
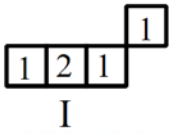
29.



- A) B) C)
D) E)

30.

A	B	C	D	E	F	G
A	C	D	E	F	G	G
C	E	E	D	F	A	B
D	C	D	A	B	A	B
E	F	D	G	B	A	A
F	G	C	F	C	E	B
F	G	A	A	C	A	E



Şekil I ve II, 7x7 tablonun farklı birer parçalarıdır. Her rakam bir harfi göstermektedir. Buna göre 1313=?

Figures I and II are different parts of a 7x7 table. Each number represents a letter. Accordingly, what is 1313=?

الشكلان الأول والثاني جزءان مختلفان من جدول 7 ×
كل رقم يمثل حرفاً. وفقاً لذلك = 1313 ؟

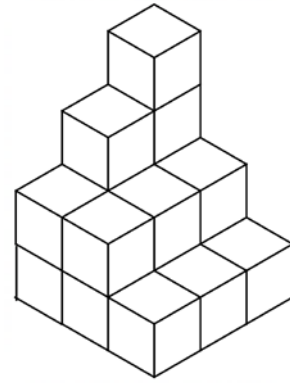
- A) BABA
B) BEBE
C) DADA
D) DEDE
E) GAGA

31.

Verilen düzlemdeki yapı birim küplerden oluşmaktadır. Bu yapıyı bozmadan büyük bir küp oluşturulmak istense en az kaç birim küp gerekir?

The structure in the given plane consists of unit cubes. If a large cube is to be created without distorting this structure, how many cubes are at least needed?

يتكون الهيكل في المستوى المحدد من مكعبات الوحدات. إذا تم إنشاء مكعب كبير دون الإخلال بهذه البنية ، فما هو عدد المكعبات المطلوبة على الأقل؟



- A) 7
B) 9
C) 18
D) 36
E) 46

32.

Verilen 5x5 tabloda 1 den 5 e kadar olan rakamlar her satırda ve her sütunda birer kez kullanılmıştır.

In the 5x5 table, the numbers from 1 to 5 are used once in each line and each column.

في الجدول 5 × 5 المحدد ، يتم استخدام الأرقام من 1 إلى 5 مرة واحدة في كل صف وفي كل عمود.

		5	2	
		A	1	5
		2		1
2	B		5	
3			C	

$$A - B + C = ?$$

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

33.

Şekilde verilen 6x6 sudokuda A+B=?

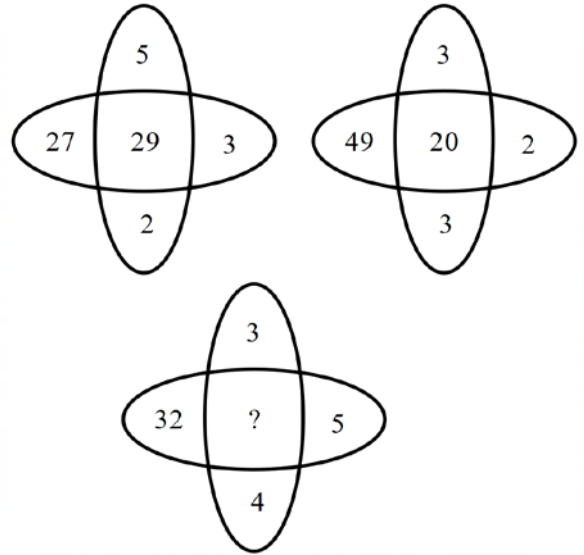
In the 6x6 sudoku given in the figure, A+B=?

في لعبة سودوكو 6 × 6 الموضحة في الشكل ، أ + ب = ؟

A	2	3			
				2	1
	5	2		6	
	1		B	4	
6	4		5	3	
			6		

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

34.



- A) 25
- B) 28
- C) 43
- D) 55
- E) 62

35.

		8		
		14		
14	17	x	23	26
		26		
	21	32	43	y
				65

$$\Rightarrow x + y = ?$$

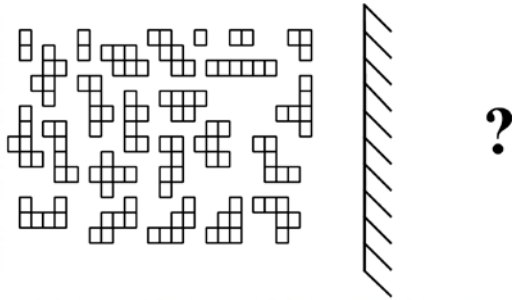
- A) 18
- B) 20
- C) 45
- D) 54
- E) 74

36.

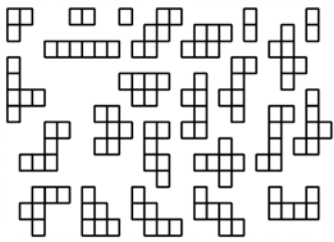
Şeklin aynaya göre yansıması hangisidir?

Which of the following is the mirror reflection of the given shape?

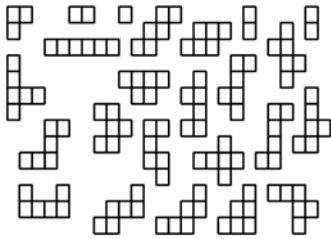
ما هو الشكل الصحيح في حالة انعكاسه



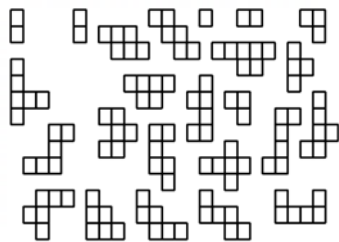
A)



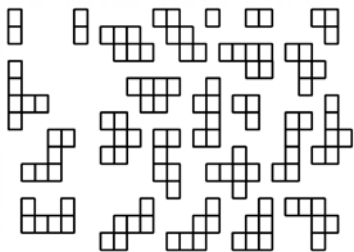
B)



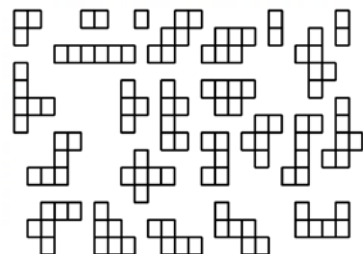
C)



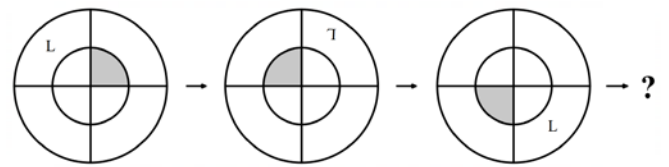
D)



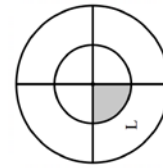
E)



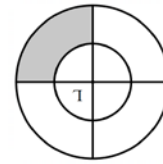
37.



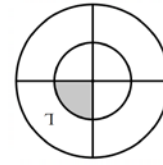
A)



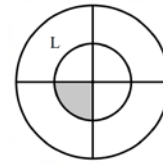
B)



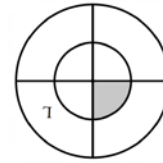
C)



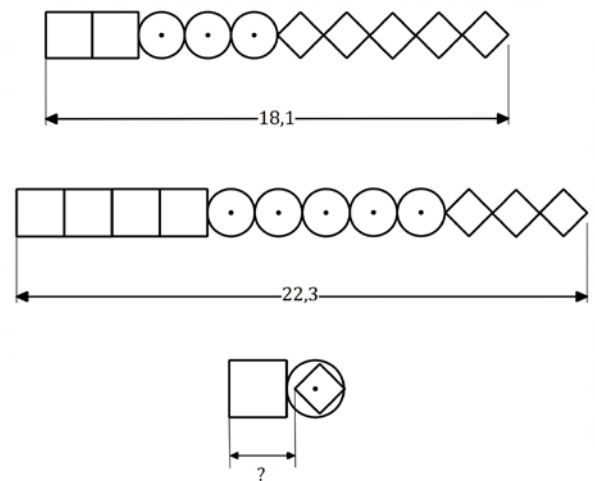
D)



E)



38.



A) 2,1

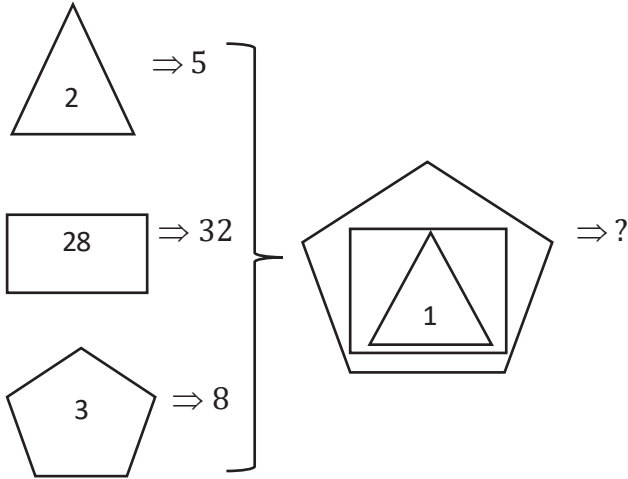
B) 2,4

C) 3,2

D) 4

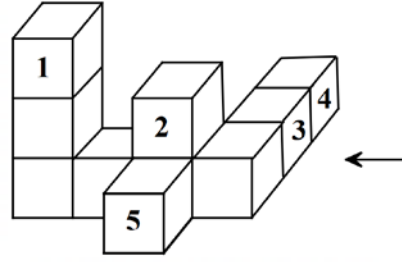
E) 5,1

39.



- A) 8
- B) 13
- C) 15
- D) 24
- E) 30

40.



Verilen yapıdan kaç numaralı küp çıkarılırsa yapının sağdan görünümü değişmez?

Which unit cube can be removed in the given shape and the right view of this shape does not change?

أي رقم من المكعبات إذا تمت إزالتها من الهيكل المحدد، فلن يتغير المظهر الصحيح للهيكل من جهة اليمنى؟

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

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 .