

ADI – SOYADI:

BABA ADI:

ANNE ADI:

قاصی آستپ 2022

- A) ADI-SOYADI bölümüne adınızı ve soyadınızı aralarında birer boşluk bırakarak yazıp kodlayınız.  
B) Bir kolona birden fazla harf kodlamayın.  
C) Bütün kodlamalar yumuşak kurşun kalemle yapınız.  
D) Yanıt kağıdını karalamayınız buruşturmayınız.

Başarılar dileriz ...



1	A B C D E	21	B C D E	41	B C D E	61	B C D E
2	A B C D E	22	A B C D E	42	A B C D E	62	A B C D E
3	A B C D E	23	A B C D E	43	A B C D E	63	A B C D E
4	A B C D E	24	A B C D E	44	A B C D E	64	A B C D E
5	A B C D E	25	A B C D E	45	A B C D E	65	A B C D E
6	A B C D E	26	A B C D E	46	A B C D E	66	A B C D E
7	A B C D E	27	A B C D E	47	A B C D E	67	A B C D E
8	A B C D E	28	A B C D E	48	A B C D E	68	A B C D E
9	A B C D E	29	A B C D E	49	A B C D E	69	A B C D E
10	A B C D E	30	A B C D E	50	A B C D E	70	A B C D E
11	A B C D E	31	A B C D E	51	A B C D E	71	A B C D E
12	A B C D E	32	A B C D E	52	A B C D E	72	A B C D E
13	A B C D E	33	A B C D E	53	A B C D E	73	A B C D E
14	A B C D E	34	A B C D E	54	A B C D E	74	A B C D E
15	A B C D E	35	A B C D E	55	A B C D E	75	A B C D E
16	A B C D E	36	A B C D E	56	A B C D E	76	A B C D E
17	A B C D E	37	A B C D E	57	A B C D E	77	A B C D E
18	A B C D E	38	A B C D E	58	A B C D E	78	A B C D E
19	A B C D E	39	A B C D E	59	A B C D E	79	A B C D E
20	A B C D E	40	A B C D E	60	A B C D E	80	A B C D E

SINAV NO

SINIF NO

YANUŞ KODLAMA

YÖS SINAVI İŞLEM BÖLÖMER!

GEOMETRİ MATEMATİK İQ

SINAV SONUCU

İQ:

MATEMATİK:

GEOMETRİ:

TOPLAM:



برنامه زمان بندی آزمون

دوره اول حل سوال:

زمان اتمام هندسه	زمان اتمام ریاضی	زمان اتمام هوش
..... دقیقه	..... دقیقه	..... دقیقه
		زمان اتمام دوره اول سوال ها
		..... دقیقه

تعداد سوال های حل نشده:

هندسه	ریاضی	هوش
عدد .....	عدد .....	عدد .....

دوره دوم حل سوال:

زمان حل سوالات	تعداد سوالات حل شده
عدد .....	عدد .....

تعداد سوال های حل نشده در دوره دوم: .....

تعداد سوال باقی مانده:

شماره سوال باقی مانده هندسه	شماره سوال باقی مانده ریاضی	شماره سوال باقی مانده هوش
عدد .....	عدد .....	عدد .....

تکنیک پاسخگویی برای حل این سوالات:  رد گزینه  شانس



## 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 taşımayınız. 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 مسيحية لكن سؤال عن 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 ، فامسحها بشكل تام مستخدماً ممحاة نظيفة مع مراعاة الحفاظ على الورقة . ولا تسيء وضع علامة للجواب الخاطئ .

لا تقم بتحويل ورقة الإجابة الخاصة بك . ولا تطويها ولا تضع أي علامات غير ضرورية عليها .

إن تؤثر عند الإجابات الخاطئة على الإجابات الصحيحة في الامتحان .

تم ذكر القواعد الأخرى التي يجب اتباعها في الامتحان على الغلاف الخلفي لهذا الكتاب . اقرأ هذه القواعد بعناية وقم بتطبيقها بشكل دقيق لكي يسيح امتحانكم مقبولاً .



### 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 مهارتكم في الرياضيات .
- 2 - يوجد 40 سؤال في هذا الامتحان .
- 3 - يجب أن تظلل الأسئلة في القسم المخصص لامتحان الرياضيات من ورقة الإجابة .
- 4 - يمكنك أن تبدأ في الإجابة على أي سؤال تريد 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.  $\frac{a, bc}{-0, abc} = \frac{5, 436}{5, 436} \Rightarrow a + b + c = ?$

- 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)  $2^6$
- C)  $4^8$
- D)  $4^3$
- E)  $2^{22}$

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

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

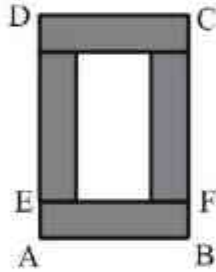
5.  $a, b \in \mathbb{R} \neq 0,$   
 $\left. \begin{array}{l} |a \cdot b| = 3 \cdot b \\ \left| \frac{a}{b} \right| = -\frac{a}{4} \end{array} \right\} \Rightarrow b - a = ?$

- 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.  $\frac{n^5 + n^4 + 1}{(n^4 - n^2 + 1) \cdot (n^2 + n + 1)} = 6 \Rightarrow n^2 - n = ?$

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

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

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

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

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



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

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

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

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

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

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

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.

$$\triangle abc = ax^3 - bx^2 + cx - d$$

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

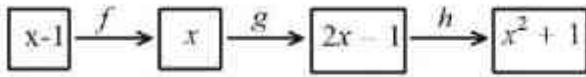
$$\triangle 2020 \cdot \square 20021 = \dots + Ax^5 + \dots$$

$$A = ?$$

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



17.  $f, g, h: \mathbb{R} \rightarrow \mathbb{R}$



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

- 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.

$$A_1 = \{x : (-1)^n < \frac{x-1}{n} \leq 3, x \in \mathbb{Z}\}$$

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

- 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.

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

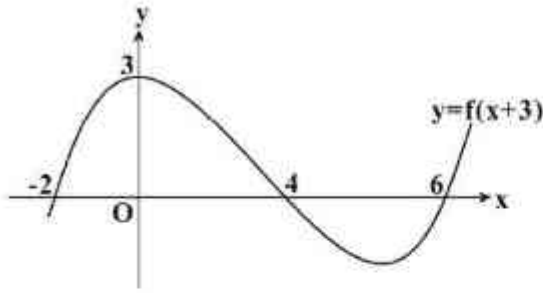
$$S(B - A) = 18, S(A \cup B)' = 5$$

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

- 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?

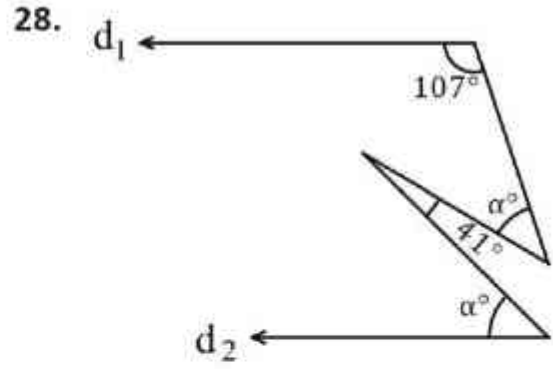
Given that  $\log 7 = 0,85$ , What is the number of digits in  $(3430)^{20}$ ?

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

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

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

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

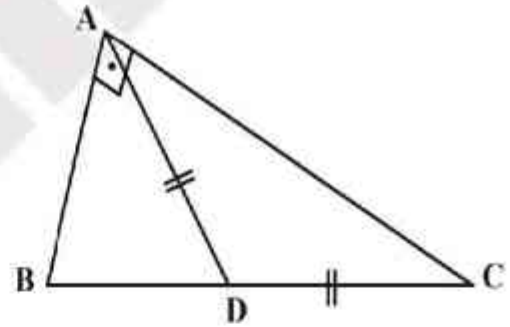


$$d_1 \parallel d_2$$

$$\alpha = ?$$

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

29.



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

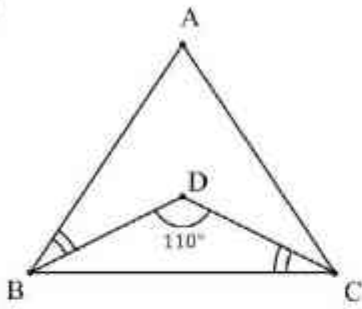
$$m(\angle DAC) = 15^\circ$$

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

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

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

30



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

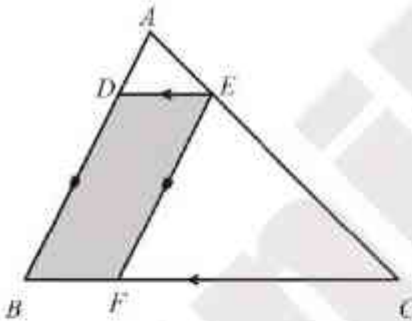
$$m(\angle BDC) = 110^\circ$$

$$|AB| = |AC|$$

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

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

31.



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

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

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

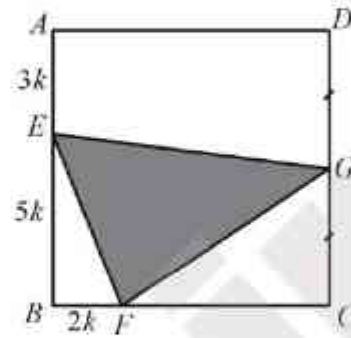
$$\Rightarrow \frac{A(\square DEFB)}{A(\triangle ABC)} = ?$$

- 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.

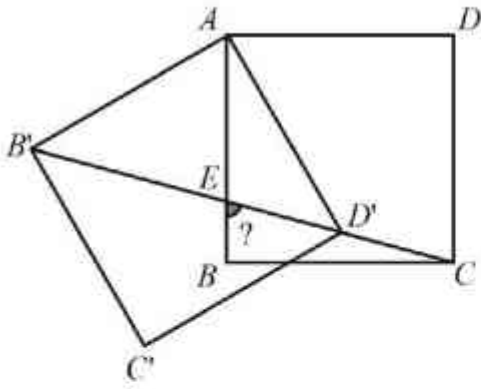
ABCD هو مربع.



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

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

33.



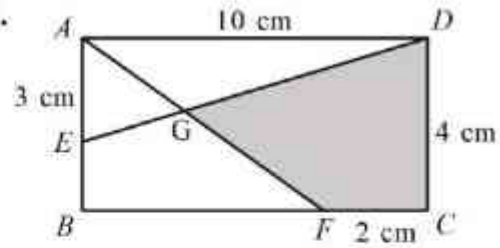
Şekilde verilen ABCD karesi A noktası etrafında döndürülerek  $AB'C'D'$  karesi elde ediliyor.  $B', E, D'$  ve  $C$  noktaları doğrusal olduğuna göre  $m(\angle BEC)=?$

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  $B', E, D'$  و  $C$  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.

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

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

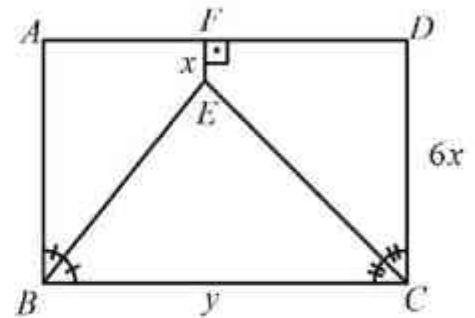
$$A(GFCD) = x \text{ cm}^2 \rightarrow x = ?$$

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

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35. ABCD bir dikdörtgendir  
 ABCD is a rectangle.

ABCD هو مستطيل.



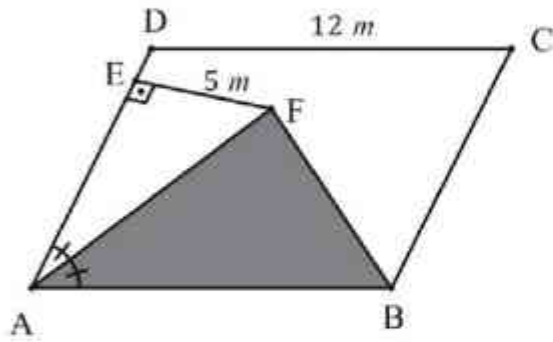
$$\frac{y}{x} = ?$$

- 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.



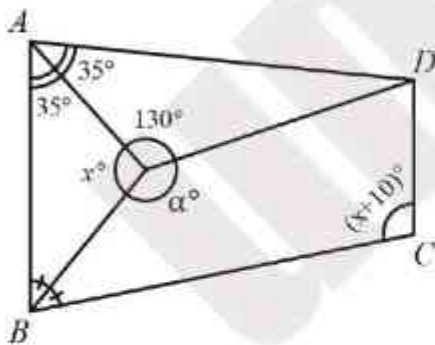
$$A(\Delta AFB) = x m^2 \Rightarrow x = ?$$

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

37. ABCD yamuktur.

ABCD is trapezoidal

ABCD هو شبه منحرف.



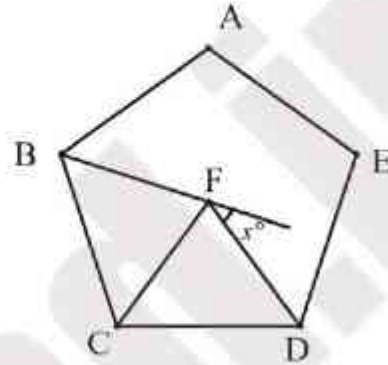
$$\alpha = ?$$

- 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.



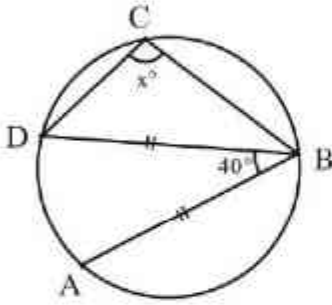
$$x = ?$$

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

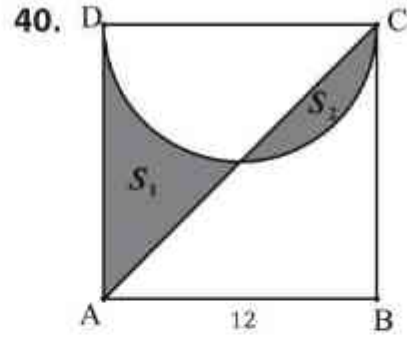
39. Verilen çemberde  $|DB| = |AB| \Rightarrow x = ?$

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

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



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



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 المظللة  $(S_1 + S_2)$ ؟

- 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 cevaplarımızı işaretlerken cevapladığınız soru numarası ile cevap kağıdındaki Genel Yetenek Testi alanındaki cevap numarasının aynı olmasına dikkat etmeniz gerekmektedir.

### GENERAL APTITUDE TEST

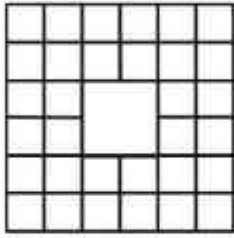
- 1) This test is prepared to measure your skills in abstract thinking, reasoning, and problem solving areas.
- 2) There are 40 questions in this test.
- 3) The answers to the questions in this test should be marked on the part of the Answer Sheet reserved for General Aptitude.
- 4) In this test, you 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 .

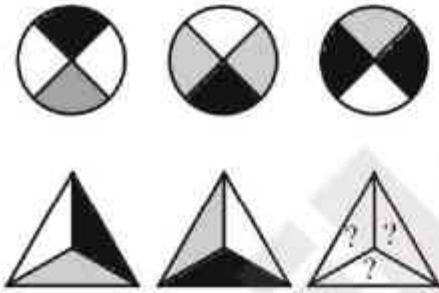


1. Görselde kaç tane kare vardır?  
How many squares are there in the image?  
كم عدد المربعات في الصورة؟



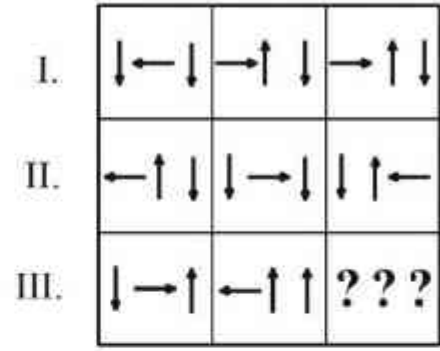
- A) 67  
B) 70  
C) 75  
D) 78  
E) 81

2.



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

3.



- A) ← ↓ ↓
- B) → ↓ ↓
- C) → ↓ ↑
- D) ↓ → ↑
- E) ↓ ↑ →

4.



GAUN=?

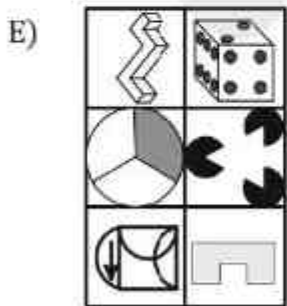
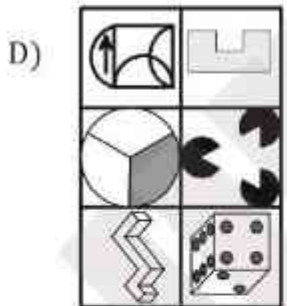
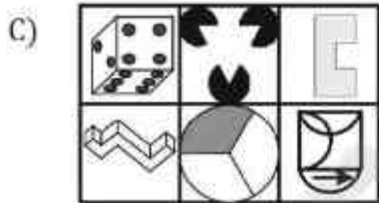
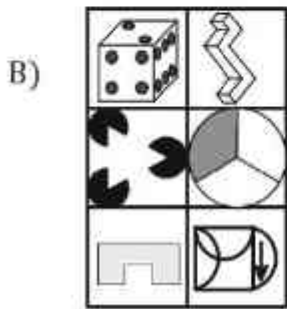
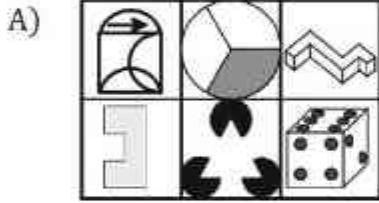
- A) 2538  
B) 2385  
C) 3258  
D) 5238  
E) 8523



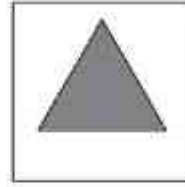
5. Verilen görsellerden hangisi diğerlerinden farklıdır?

Which of the images is different from the others?

أي من الصور المقدمة تختلف عن الصور الأخرى؟



6.



9



15



15



?

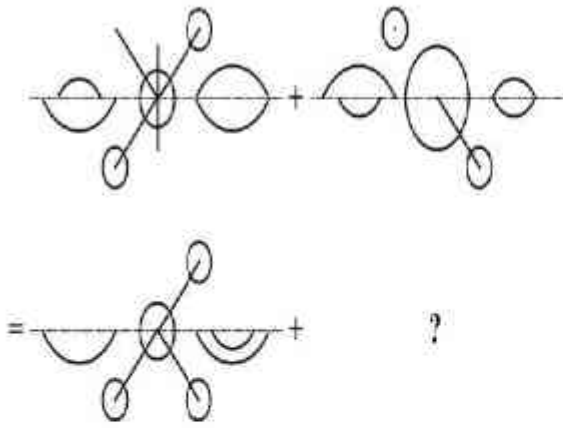
- A) 5  
B) 8  
C) 10  
D) 12  
E) 15

7.

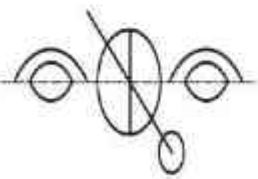
HE	→	⊗ ⊙
TA	→	⊙ ∇
MR	→	⊙ Δ
SA	→	⊙ ⊕
RE	→	⊗ ⊕
?	→	⊙ ⊙

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

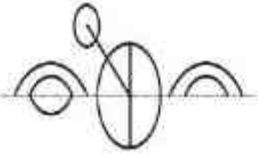
8.



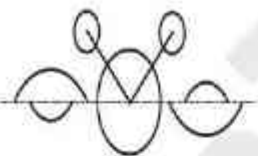
A)



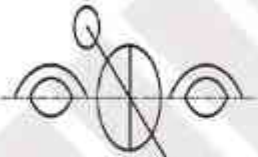
B)



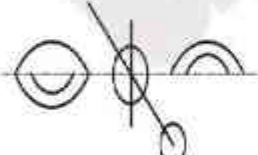
C)



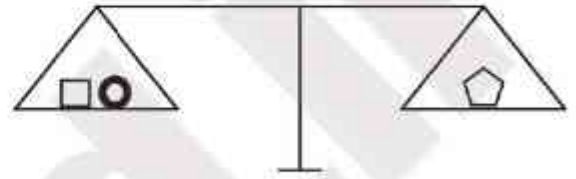
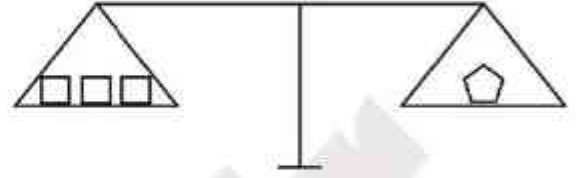
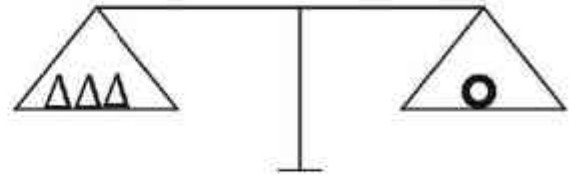
D)



E)



9.



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

A) 12

B) 11

C) 10

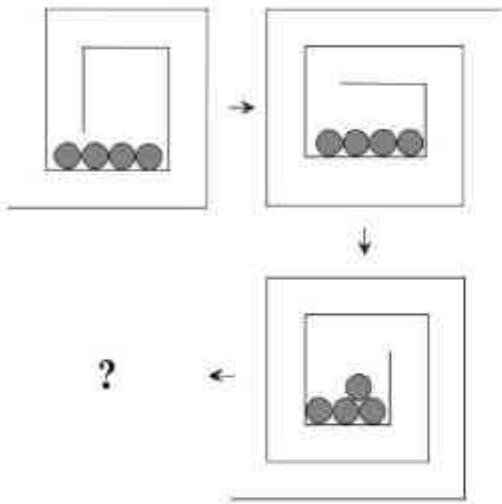
D) 9

E) 8

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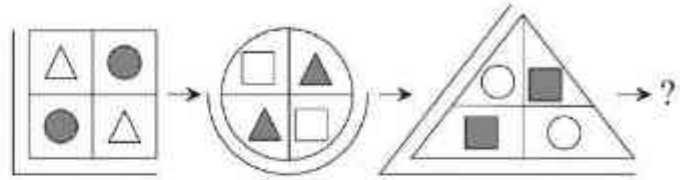


10.



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

11.



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

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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.

⊕	□	○	▱
□		○○	○○○○
○	○○		
▱	○○○○		

$$\bigcirc \oplus \square = ?$$

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

14.

$$\bigcirc \bigcirc = \square \square \square \square$$

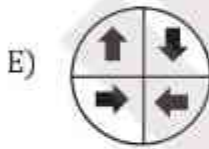
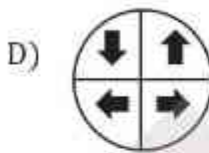
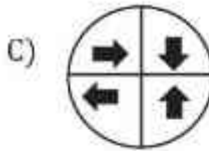
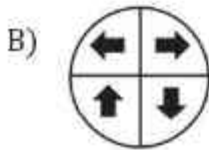
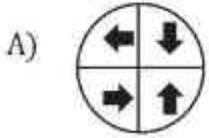
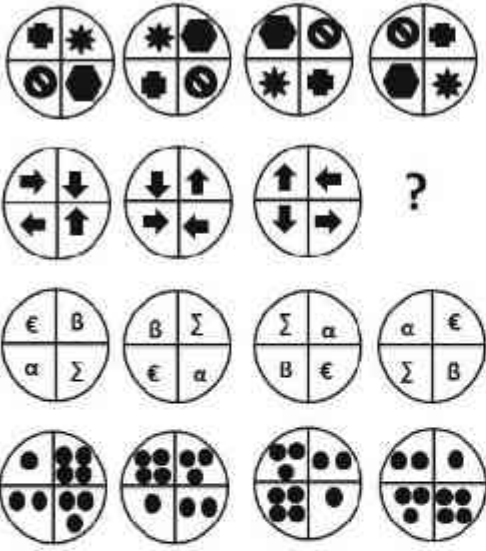
$$\square \square = \triangle \triangle \triangle \triangle$$

$$\bigcirc \square = ?$$

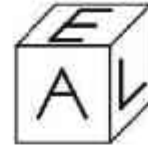
- A)  $\triangle \triangle \triangle$
- B)  $\triangle \triangle \triangle \triangle$
- C)  $\triangle \triangle \triangle \triangle \triangle$
- D)  $\triangle \triangle \triangle \triangle \triangle \triangle$
- E)  $\triangle \triangle \triangle \triangle \triangle \triangle \triangle$



15.



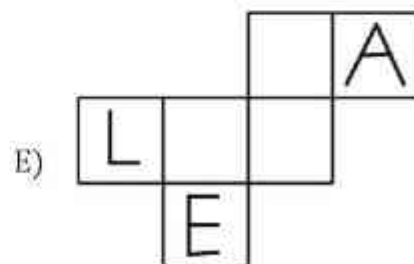
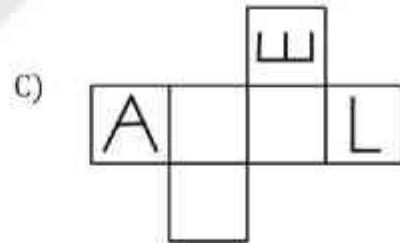
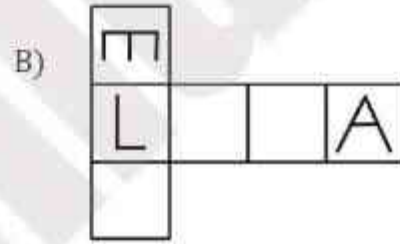
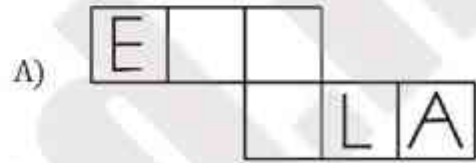
16.



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؟



GAÜNÜS 2022



## GAÜNYÖS 2020

## A

26 Temmuz 2020

July 26, 2020

26 يوليو 2020



## ADAY ÖĞRENCİNİN / CANDIDATE STUDENT

ADI / NAME / اسمي : .....

SOYADI / SURNAME / فامي : .....

İMZA / SIGNATURE / عيوتي : .....

## 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 taşımayınız. Tükenmez kalem veya dolma kalem kullanmayınız.

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

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

VII. Bu testler puanlanırken, doğru cevaplarınız sayısından yanlış cevaplarınız sayısının dörtte biri düşülecek ve kalan sayı ham puanınız olacaktır. Bu nedenle, hakkında hiçbir fikriniz olmayan soruları boş bırakınız. Ancak soruda verilen seçeneklerden birkaçını eleyebiliyorsanız, kalanlar arasından doğru cevabı kestirmeye çalışmanız yararınıza olabilir.

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.

IV. 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. In the scoring of the tests, for every four incorrect answers, one correct answer will be deducted; the remainder will be the raw score. With this in mind, do not guess at the answers. However, in cases where you are sure that certain alternatives can be eliminated, you may want to choose what seems the likeliest of the remainders.

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 . لمدة الإجابة المخصصة 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 ، فسيتم اعتبار إجابتك خاطئة .

فقط إجاباتك بقلم رصاص أسود ولين . مع مراعاة عدم التظليل خارج المكان المحدد . لا تستخدم قلم حبر عاتق أو قلم حبر مائي

إذا كنت تريد تغيير إجابة ما ، فامسحها بشكل تام مستخدماً ممحاة طرية مع مراعاة الحفاظ على الورقة . ولا تسيء وضع علامة للتحواب البعيدة

لا تقم بحريف ورقة الإجابة الخاصة بك ، ولا تطويها ولا تطلع أي علامات غير ضرورية عليها

عندما تم وضع الدرجات الخاصة بهذا الامتحان ، سيتم انطفاص إجابة واحدة صحيحة من كل أربعة إجابات خاطئة أثناء حساب الدرجات النهائية . وبالتالي لا يجب على الأسئلة التي لا تعرف منها أي شيء ، وتركها فارغة . أما إذا استطعت حذف بعض من الخيارات المخصصة فمن الممكن أن تستفيد من العلامة إذا كانت الإجابة الصحيحة من ضمن الخيارات المتبقية .

لم يذكر القواعد الأخرى التي يجب اتباعها في الامتحان على الغلاف الخلفي لهذا الكتيب . اقرأ هذه القواعد بعناية وقم بتطبيقها بشكل دقيق لكي يوضع امتحانكم مقبولاً .



**GAÜNİYOS  
2020**

### 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.
- 4) Bu testte istediğiniz sorudan cevaplamaya başlayabilirsiniz.
- 5) 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 مهارتكم في الرياضيات .
- 2 - يوجد 40 سؤال في هذا الامتحان .
- 3 - يجب أن تظلل الأسئلة في القسم المخصص لامتحان الرياضيات من ورقة الإجابة .
- 4 - يمكنك أن تبدأ في الإجابة على أي سؤال ترغبه في هذا الامتحان .
- 5 - عند اختيار الإجابة في هذا الامتحان , يجب عليك التأكد من مطابقة رقم السؤال مع رقم الإجابة المختارة في المكان المخصص لامتحان الرياضيات من ورقة الإجابة .



1.  $a, b \in \mathbb{Z}; a^b = 64 \Rightarrow \min(a+b) = ?$

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

3.  $B = \frac{7}{5} + \frac{19}{11} - \frac{29}{13} \Rightarrow \frac{8}{11} + \frac{12}{5} - \frac{3}{13} = ?$

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

2.  $\frac{2}{9} + \frac{22}{99} + \frac{222}{999} + \dots + \frac{222\dots2}{999\dots9} = 60 \Rightarrow x = ?$

- A) 75
- B) 125
- C) 148
- D) 210
- E) 270

4.  $a, b \in \mathbb{R}^+, \left. \begin{matrix} a^b = b^a \\ 2a = 3b \end{matrix} \right\} \Rightarrow a = ?$

- A)  $\frac{1}{9}$
- B)  $\frac{3}{2}$
- C)  $\frac{18}{7}$
- D)  $\frac{27}{8}$
- E)  $\frac{32}{5}$





5.  $a = \sqrt[3]{3}, b = \sqrt[3]{27}, c = \sqrt[3]{9}$

$a, b$  ve  $c$  sayıları için aşağıdaki sıralamalardan hangisi doğrudur?

Which of the following order is correct for numbers  $a, b$  and  $c$ ?

أي من الترتيب التالي صحيح للأرقام  $a$  و  $b$  و  $c$  ؟

- A)  $a < c < b$
- B)  $a < b < c$
- C)  $b < a < c$
- D)  $c < a < b$
- E)  $c < b < a$

7. 
$$\left. \begin{array}{l} \frac{x}{y+z} = \frac{2}{5} \\ \frac{y}{x+z} = \frac{3}{11} \end{array} \right\} \Rightarrow \frac{x}{z} = ?$$

- A)  $\frac{1}{9}$
- B)  $\frac{2}{5}$
- C)  $\frac{3}{8}$
- D)  $\frac{4}{7}$
- E)  $\frac{5}{9}$

6.  $x < 0 < y < z,$   
 $|y-x| + |y-z| - |y+z| + |x-z| = ?$

- A)  $-2x - y + z$
- B)  $4y$
- C)  $3x - z$
- D)  $2y - 2x$
- E)  $3z - 2x + y$

8.  $\frac{2a+6}{b-7} = \frac{3b+c}{a+4} = \frac{-b+c}{c+6} = k \Rightarrow b+c = ?$

- A)  $-4$
- B)  $-8$
- C)  $-12$
- D)  $0$
- E)  $-1$

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9.  $x^2 + x - 11 = 0 \Rightarrow x^3 + 8x^2 = ?$

- A)  $3x - 4$
- B)  $3x$
- C)  $4x + 77$
- D)  $2x + 2$
- E)  $x$

10.

$$\frac{a^4 + a^2 + 1}{a^2 - a + 1}$$

ifadesinin en sade hali aşağıdakilerden hangisidir?

Which of the following is the simplest form of the expression?

أي مما يلي هو أبسط شكل من أشكال التعبير؟

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

11.

$$\frac{(a^2 - 64)^{1991}}{(a-1)^{2000} \cdot (a-3)^{1990}} \leq 0$$

Eşitsizliğin çözüm kümesi aşağıdakilerden hangisidir?

Which of the following is the solution set of the given inequality?

أي مما يلي هو مجموعة الحلول لعدم المساواة المعطى؟

- A)  $[3, 8]$
- B)  $[-8, 8]$
- C)  $[-8, 1) \cup (3, 8) - \{1, 3\}$
- D)  $[-8, 8] - \{1, 3\}$
- E)  $(-\infty, -8] - \{1, 3\}$

12.

$$\left. \begin{array}{l} \frac{2}{x} + \frac{5}{y} = 6 \\ \frac{7}{y} + \frac{10}{x} = 8 \end{array} \right\} \Rightarrow x = ?$$

- A) 18
- B) 12
- C) 8
- D) -1
- E) -18

13.  $\left. \begin{array}{l} x, y, z \in \mathbb{Z}^+ \\ 3x + 5y + 7z = 81 \end{array} \right\} \Rightarrow \max(z) = ?$

- A) 6
- B) 8
- C) 10
- D) 14
- E) 15

14.  $x \in \mathbb{R}, \left. \begin{array}{l} A = \{x: \sqrt{3} \leq x \leq 6\} \\ B = \{x: \sqrt{3} < x < 8\} \end{array} \right\} \Rightarrow (A \cap B)' = ?$

- A)  $\{x: x < 3 \wedge x \geq 6\}$
- B)  $\{x: x \leq 3 \vee x > 8\}$
- C)  $\{x: \sqrt{3} < x \leq 6\}$
- D)  $\{x: x < \sqrt{3} \vee x \geq 6\}$
- E)  $\{x: x \leq \sqrt{3} \vee x > 6\}$

15.  $\frac{A}{x+3} + \frac{B}{x-1} = \frac{5x+7}{x^2+2x-3} \Rightarrow A-B = ?$

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

16.  $P(x)$  bir polinomdur.  
 $P(x)$  is a polynomial.

$P(x)$  هو متعدد الحدود.

$P(x-1) + P(x+1) = 2x^2 - 6x + 8 \Rightarrow P(x) = ?$

- A)  $x^2 - 3$
- B)  $x^2 - 3x + 3$
- C)  $x^2 + 2x + 4$
- D)  $x^2 - 8$
- E)  $x^2 + 4x + 6$



17.  $f(x) = |x-3| - |x| \Rightarrow f(-1) + f(0) = ?$

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

18.  $f: \mathbb{R} - \{0\} \rightarrow \mathbb{R}$ ,

$$f(x) = -2x^3 + 4x^2 - 2x + 1 \Rightarrow x^3 \cdot f\left(\frac{1}{x}\right) = ?$$

- 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)  $x^3 - 2x$

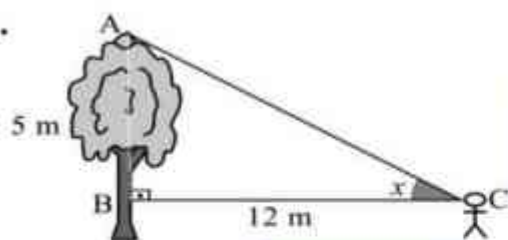
19.  $m\Delta n = \begin{cases} m^2 + n, & m, n > 0 \\ 3m - n, & m, n \leq 0 \end{cases} \Rightarrow 3\Delta(2\Delta - 1) = ?$

- A) 16
- B) 14
- C) 12
- D) 10
- E) 8

20.  $15 \cdot \sin x - 8 \cdot \cos x = 0 \Rightarrow \tan x = ?$

- A)  $\frac{15}{8}$
- B)  $\frac{8}{15}$
- C)  $\frac{8}{17}$
- D)  $\frac{15}{17}$
- E) 1

21.



$$\left. \begin{array}{l} |AB| = 5 \text{ m} \\ |BC| = 12 \text{ m} \end{array} \right\} \Rightarrow \cos 2x = ?$$

- A)  $\frac{119}{169}$   
B)  $\frac{129}{169}$   
C) 1  
D)  $\frac{91}{169}$   
E)  $\frac{247}{169}$

22.  $25^{x-1} + 5^{x-1} - 20 = 0 \Rightarrow x = ?$

- A)  $\frac{\ln 4 + \ln 5}{\ln 5}$   
B)  $\frac{\ln 4 - \ln 5}{\ln 5}$   
C)  $\frac{\ln 5 - \ln 4}{\ln 5}$   
D)  $\frac{\ln 4 + 2 \ln 5}{\ln 5}$   
E)  $\frac{\ln 4 - 2 \ln 5}{\ln 5}$

23.  $\left. \begin{array}{l} \log 2 = a \\ \log 3 = b \end{array} \right\} \Rightarrow \log 540 = ?$

- A)  $a^2 b^3$   
B)  $a + 3b + 1$   
C)  $3ab + 1$   
D)  $a^2 + b^3$   
E)  $b^3 + a + 1$

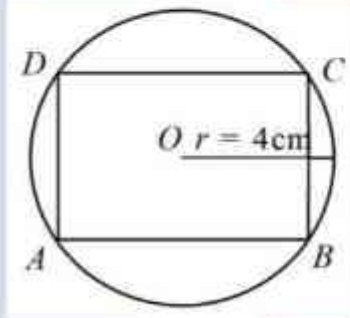
24.  $\lim_{x \rightarrow 0} \frac{3x \cdot \sin 2x}{1 - \cos x} = ?$

- A) 11  
B) 32  
C) 12  
D) 8  
E) 0

25. O merkezli çemberin yarıçapı 4 cm dir. Köşeleri çember üzerindeki ABCD dikdörtgenin alanının maksimum değeri nedir?

The radius of the O-centered circle is 4 cm. What is the maximum value of the area of the ABCD rectangle whose corners are on the circle?

الدائرة ذات المركز O، نصف قطرها 4 سم. ما هي القيمة القصوى لمساحة المستطيل ABCD الذي توجد زواياه على الدائرة؟

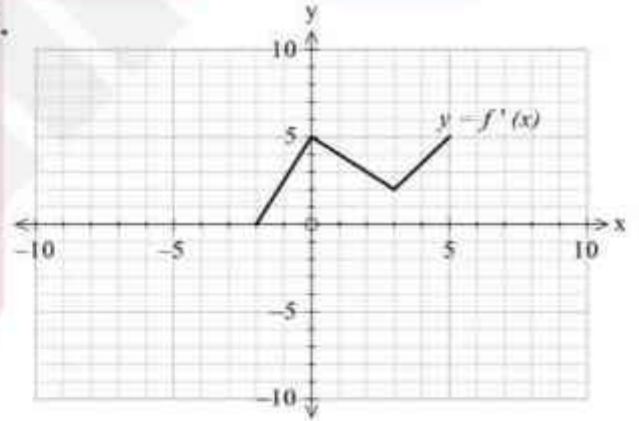


- A)  $8 \text{ cm}^2$   
 B)  $16 \text{ cm}^2$   
 C)  $32 \text{ cm}^2$   
 D)  $48 \text{ cm}^2$   
 E)  $64 \text{ cm}^2$

26.  $f: R \rightarrow R,$   
 $f'(x) = x^3 - 3x^2 + 5$   
 $f(4) = 20$  }  $\Rightarrow \lim_{x \rightarrow 4} \frac{f(x) - 20}{x - 4} = ?$

- A) 20  
 B) 21  
 C) 22  
 D) 23  
 E) 24

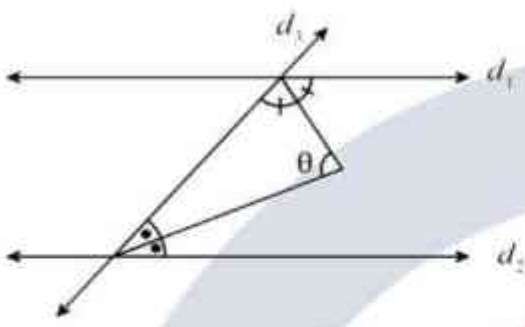
27.



$$\int_0^5 f'(x) dx = ?$$

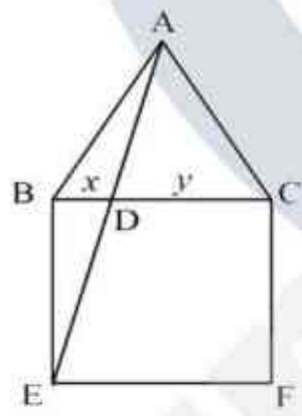
- A) 10  
 B)  $\frac{25}{2}$   
 C) 15  
 D)  $\frac{35}{2}$   
 E) 20

28.


 $d_1 \parallel d_2 \Rightarrow \theta = ?$ 

- A)  $180^\circ$
- B)  $90^\circ$
- C)  $60^\circ$
- D)  $45^\circ$
- E)  $30^\circ$

29.



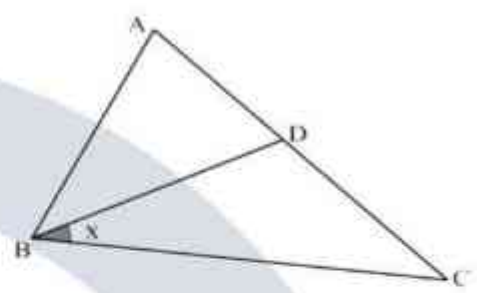
ABC eşkenar üçgen ve BEFC karedir.  
 ABC is an equilateral triangle and BEFC is a square.

ABC هو مثلث متساوي الأضلاع و BEFC مربع.

$$|BD|=x, |DC|=y \Rightarrow \frac{y}{x} = ?$$

- A)  $\sqrt{3}-1$
- B)  $4-2\sqrt{3}$
- C)  $2-\sqrt{3}$
- D)  $4+\sqrt{3}$
- E)  $\sqrt{3}+1$

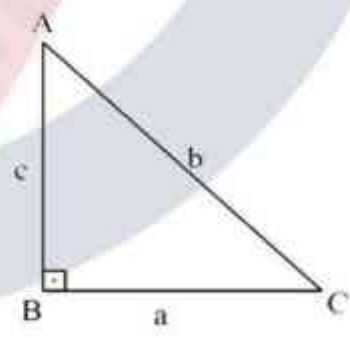
30.



$$\left. \begin{array}{l} |AC|=|BC| \\ |AB|=|BD|=|DC| \end{array} \right\} \Rightarrow x = ?$$

- A)  $36^\circ$
- B)  $45^\circ$
- C)  $60^\circ$
- D)  $72^\circ$
- E)  $76^\circ$

31.



$$[AB] \perp [BC]$$

$$(a+b+c) \cdot (a+c-b) = 80$$

$$\text{Alan}(\Delta ABC) = ?$$

$$\text{Area}(\Delta ABC) = ?$$

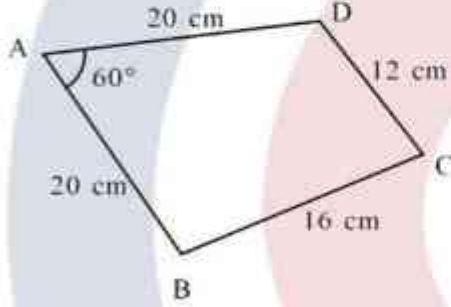
$$? = (\Delta ABC) \text{ مساحة}$$

- A) 20
- B) 30
- C) 40
- D) 80
- E) 100

32. Şekilde verilenlere göre ABCD dörtgeninin alanı kaç  $cm^2$  dir?

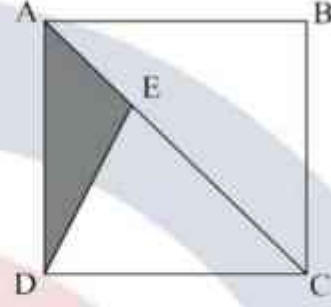
What is the area (in  $cm^2$ ) of the rectangle ABCD, according to those given in the figure?

ما هي مساحة المستطيل ABCD (بـ  $cm^2$ )، وفقاً للوارد في الشكل؟



- A) 400  
B) 192  
C)  $100\sqrt{3} + 192$   
D)  $400\sqrt{3} + 96$   
E)  $100\sqrt{3} + 96$

33. A



$$|EC| = 2|AE|$$

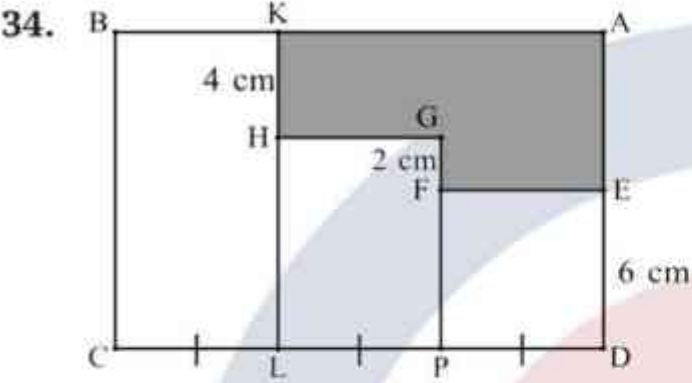
Alan( $\Delta AED$ ) =  $18 cm^2$  ise ABCD karesinin alanı kaç birim karedir?

If Area( $\Delta AED$ ) =  $18 cm^2$ , what is the area (in  $cm^2$ ) of the square ABCD?

إذا كانت مساحة ( $\Delta AED$ ) =  $18 cm^2$ ، ما هي مساحة المربع ABCD (بـ  $cm^2$ )؟

- A) 48  
B) 54  
C) 64  
D) 76  
E) 108





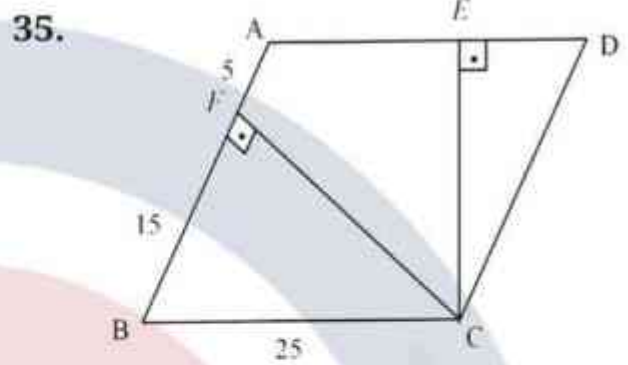
$|CL| = |LP| = |PD|$   
 $|ED| = 6 \text{ cm}$ ,  
 $|FG| = 2 \text{ cm}$ ,  
 $|KH| = 4 \text{ cm}$

Şekildeki ABCD, DEFP, PGHL, BCLK birer dikdörtgendir. Taralı alan  $60 \text{ cm}^2$  olduğuna göre ABCD dikdörtgeninin alanı  $\text{cm}^2$  dir?

ABCD, DEFP, PGHL, BCLK in the figure are rectangles. If the shaded area is  $60 \text{ cm}^2$ , what is the area (in  $\text{cm}^2$ ) of the rectangle ABCD?

المساحة المظللة  $60 \text{ cm}^2$  ، فما هي مساحة المستطيل ABCD إذا كانت هي مستطيلات. إذا كانت  
 المساحة المظللة  $60 \text{ cm}^2$  ، فما هي مساحة المستطيل ABCD  
 ؟(  $\text{cm}^2$  -> )

- A) 72
- B) 144
- C) 180
- D) 216
- E) 288



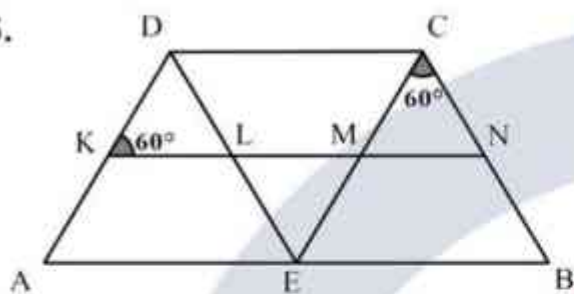
$[AB] \parallel [DC], [AD] \parallel [BC]$   
 $[CF] \perp [AB], [CE] \perp [AD]$   
 $|AF| = 5 \text{ cm}, |FB| = 15 \text{ cm}, |BC| = 25 \text{ cm}$   
 $\Rightarrow |AE| = ?$

- A) 10 cm
- B) 11 cm
- C) 12 cm
- D) 13 cm
- E) 14 cm

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36.



$$[AB] \parallel [DC] \parallel [KN]$$

$$[DE] \parallel [CB], [DA] \parallel [CE]$$

$$|DK| = |NB| = 2 \text{ cm}$$

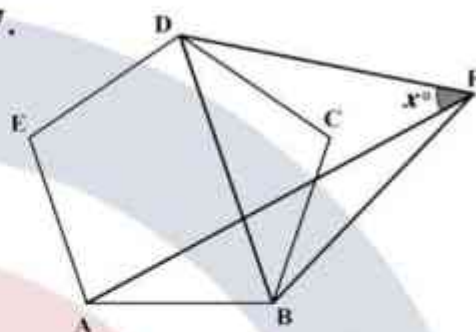
Buna göre  $ABCD$  yamuğunun çevresi kaç cm dir?

According to this, what is the circumference (in cm) of the trapezoid  $ABCD$ ?

وفقاً لهذا، ما هو محيط شبه المنحرف  $ABCD$  (بـ  $cm$ )؟

- A) 10
- B) 16
- C) 20
- D) 24
- E) 30

37.



$ABCDE$  düzgün beşgen,  $BFD$  eşkenar üçgendir.

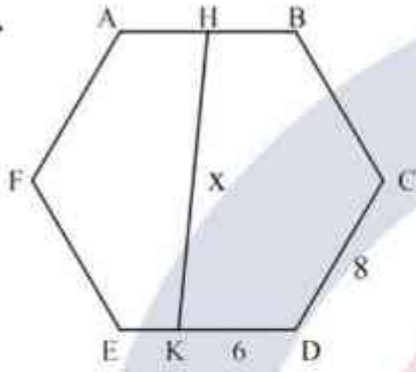
$ABCDE$  is a regular pentagon,  $BFD$  is an equilateral triangle.

$ABCDE$  هو خماسي منتظم،  $BFD$  هو مثلث متساوي الأضلاع.

$$x = ?$$

- A) 24
- B) 42
- C) 48
- D) 54
- E) 78

38.



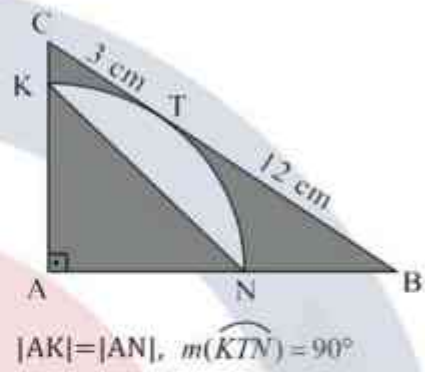
ABCDEF bir düzgün altıgendir.

ABCDEF is a regular hexagon.

$$\left. \begin{array}{l} |AH| = |HB| \\ |KD| = 6 \text{ cm} \\ |CD| = 8 \text{ cm} \end{array} \right\} \Rightarrow x = ?$$

- A) 13 cm
- B) 14 cm
- C) 15 cm
- D)  $8\sqrt{3}$  cm
- E)  $16\sqrt{3}$  cm

39.



$$|AK| = |AN|, m(\widehat{KTN}) = 90^\circ$$

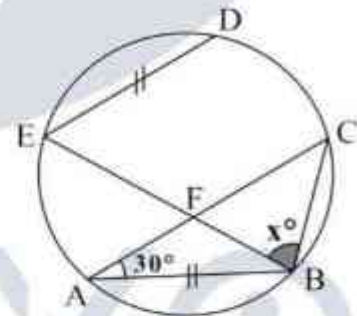
Taralı alanlar toplamı kaç  $cm^2$  dir?

What is the sum of shaded areas (in  $cm^2$ )?

ما هو مجموع المساحات المظللة ( $cm^2$ )؟

- A) 36
- B)  $63 - 9\pi$
- C) 27
- D)  $45 - 9\pi$
- E) 45

40.



$$\left. \begin{array}{l} |AB| = |ED| \\ [ED] \parallel [AC] \end{array} \right\} \Rightarrow x = ?$$

- A) 60
- B) 65
- C) 70
- D) 75
- E) 80



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### GENEL YETENEK TESTİ

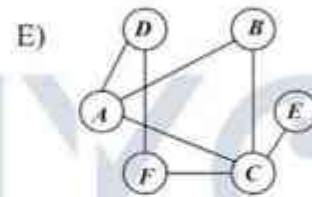
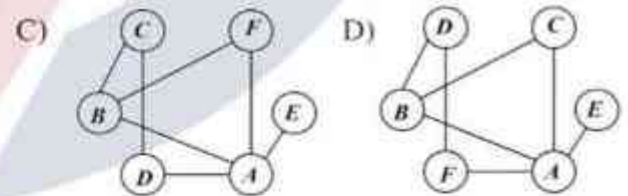
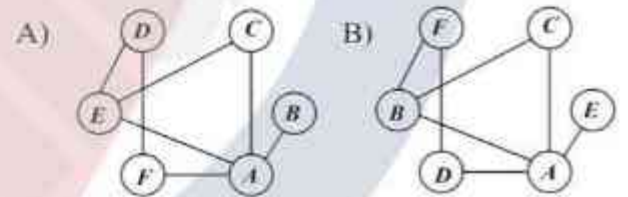
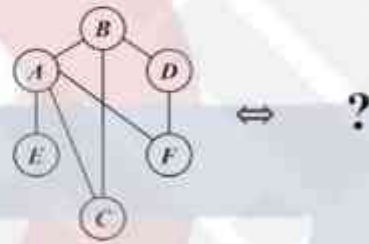
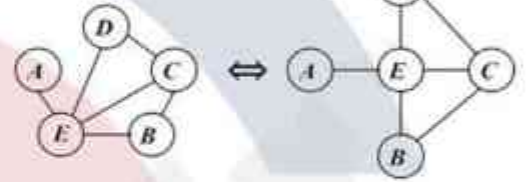
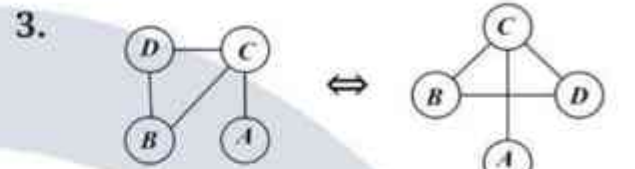
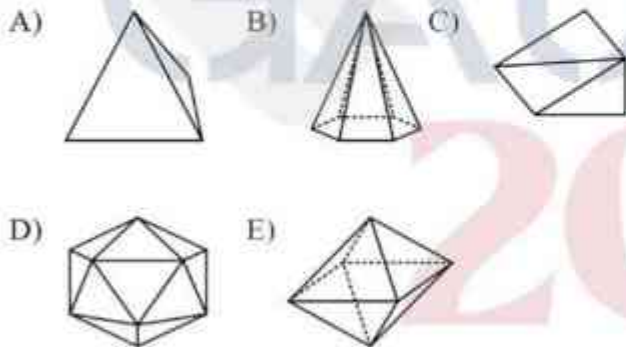
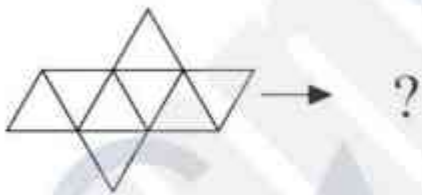
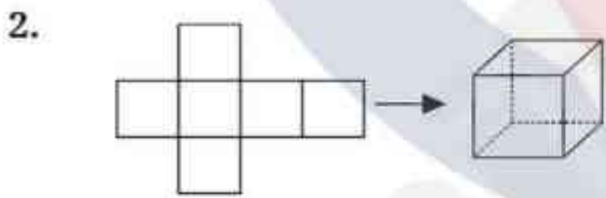
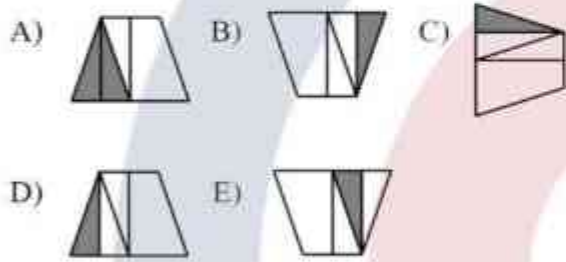
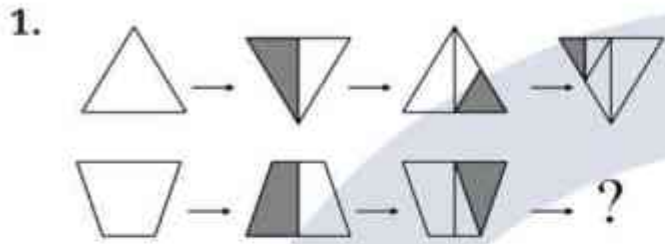
- 1) Bu test sizin soyut düşünme, akıl yürütme ve problem çözme alanlarındaki becerilerinizi ölçmek için hazırlanmıştır.
- 2) Bu testte 40 soru bulunmaktadır.
- 3) Bu testteki soruların cevapları, Cevap Kağıdının Genel Yetenek Testi için ayrılmış olan kısmına işaretlenmelidir.
- 4) Bu testte istediğiniz 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 .
- 4 - يمكنك البدء في الإجابة على أي سؤال تريده في هذا الامتحان .
- 5 - عند اختيار الإجابة في هذا الامتحان ، يجب عليك التأكد من مطابقة رقم السؤال مع رقم الإجابة المختارة في المكان المخصص لامتحان المهارات العامة من ورقة الإجابة .



4.  $GPTH * SABH * LKUN * BDCN \rightarrow GAUN$   
 $KNVF * NLZA * RSCV * LCAE \rightarrow KLCE$   
 $YGBK * LSZP * MZDO * LBYS \rightarrow ?$

- A) YSDS
- B) YZAB
- C) FDRV
- D) FZAB
- E) SDRF

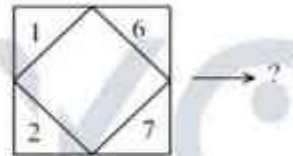
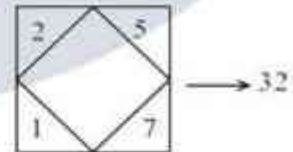
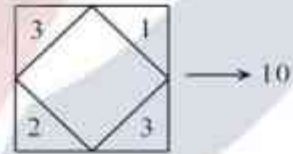
5.  $PS = L$   
 $CJ = Y$   
 $LC = K$   
 $PSC = ?$

- A) P
- B) C
- C) S
- D) J
- E) K

6.  $LEBLEBİ \rightarrow 2221$   
 $KELEBEK \rightarrow 2311$   
 $YESEMİK \rightarrow 13111$   
 $BAKLAVA \rightarrow ?$

- A) 1231
- B) 21321
- C) 1211
- D) 13111
- E) 12111

7.



- A) 35
- B) 41
- C) 43
- D) 51
- E) 55

8.

1.	G	A	U	N	Y	O	S
2.	A	U	N	Y	O	S	G
3.	U	N	Y	O	S	G	A
4.	N	Y	O	S	G	A	U
5.	Y	O	S	G	A	U	N
⋮	...						
32.							

Verilen tabloda 32. sıraya aşağıdaki dizilimlerden hangisi gelmelidir?

Which of the following sequences should come to the 32<sup>nd</sup> place in the given table?

أي من التسلسلات التالية يجب أن تأتي إلى المرتبة 32 في الجدول المحدد؟

- A) 

G	A	U	N	Y	O	S
---	---	---	---	---	---	---
- B) 

N	Y	O	S	G	A	U
---	---	---	---	---	---	---
- C) 

A	U	N	Y	O	S	G
---	---	---	---	---	---	---
- D) 

U	N	Y	O	S	G	A
---	---	---	---	---	---	---
- E) 

Y	O	S	G	A	U	N
---	---	---	---	---	---	---

9.

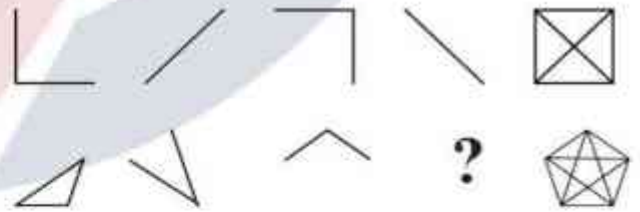
x	a	b
a	p	
b	2	r

+	a	b
a		3
b		

$$a, b, p, r \in \mathbb{Z} \Rightarrow p + r = ?$$

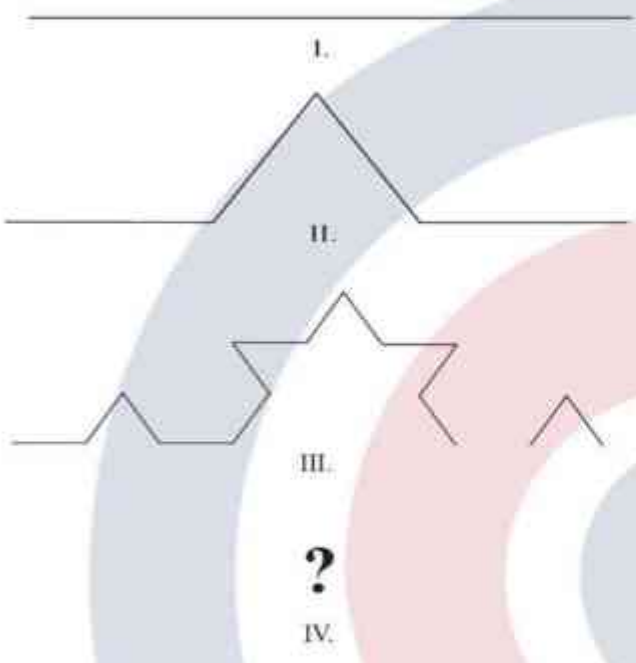
- A) 10  
B) 9  
C) 7  
D) 5  
E) 4

10.



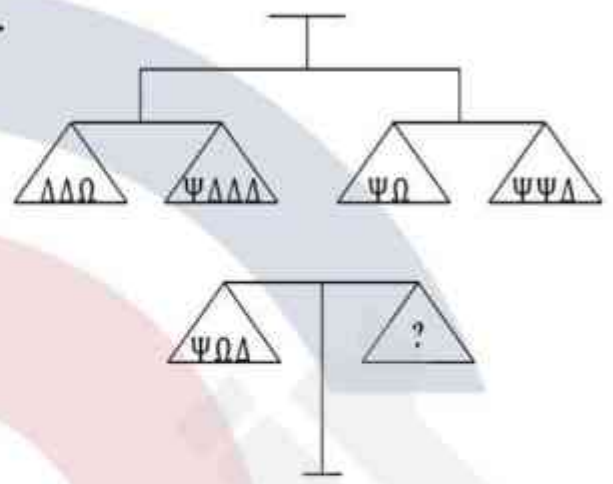
- A)
- B)
- C)
- D)
- E)

11.



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

12.



- A) ΔΔΔ
- B) ΔΔΔΔ
- C) ΨΨΨ
- D) ΩΩΩ
- E) ΨΨ

13.

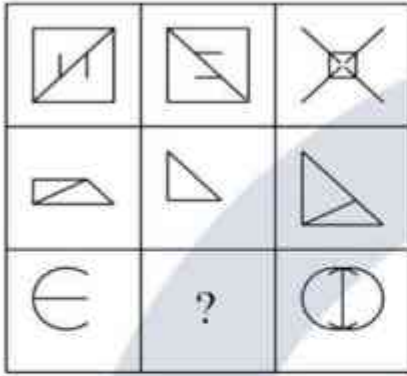
	?	
		?

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

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14.



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

15. Tabloda verilenlere göre aşağıdakilerden hangisi kesinlikle doğrudur?

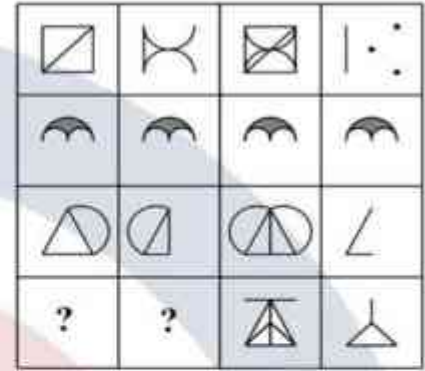
According to the things given in the table, which of the following is absolutely true?

وفقاً لما يرد في الجدول ، أي مما يلي صحيح تماماً؟

		A	B
C			D
E	F		
	G	H	

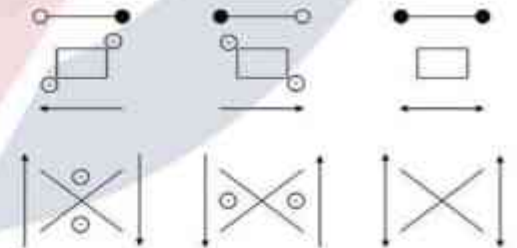
- A) A=D=E=G
- B) A=G
- C) B=H, C=G
- D) B=H
- E) D=G

16.



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

17.



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