

GALATA TR-YÖS-2

Galata TR-YÖS
denemesinin
2.takımı

Sınav Süresi
100 DK

@galatayosegitim

SINAV İÇERİĞİ

Exam content

Sayısal Yetenek 40 Soru
Numerical Ability

Temel Matematik 40 Soru
Basic Mathematics

ADINIZ VE SOYADINIZ
Your Name And Surname

SINIF
Class



VIDEO
ÇÖZÜMÜ

IQ

1. YAYA = 8222882228
AYAK = 28822288
SAK = 82288
KASA = ?

A) 828228 B) 8828282 C) 2828282
D) 8288228 E) 228288

2. $\frac{1}{9}, \frac{13}{7}, \frac{26}{4}, ?, \frac{33}{17}, \frac{41}{19}$

A) $\frac{29}{4}$ B) $\frac{30}{8}$
D) $\frac{7}{32}$ E) $\frac{9}{31}$

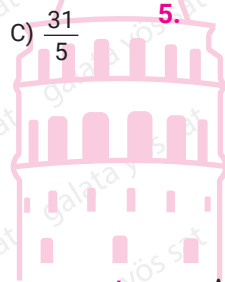
3. $a * b = \sqrt{a \cdot b + 25}$
 $1990 * 2000 = ?$

A) 1991 B) 1995 C) 2005
D) 2011 E) 2010

4. $\begin{matrix} 28 & 32 & 36 \\ 39 & 41 & 43 \\ 61 & 59 & 57 \\ X & Y & Z \end{matrix}$

$$X + Y + Z = ?$$

A) 164 B) 180 C) 198
D) 246 E) 258



5.

■	△	★	○
□	○	■	●
★	●	△	■
△	□	●	★



A)

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

B)

F	D	B	G
H	G	F	A
G	A	D	F
D	H	A	G

C)

C	A	F	K
G	K	C	H
F	H	A	C
A	G	H	F

D)

C	L	A	F
A	F	C	H
G	H	L	C
L	A	H	G

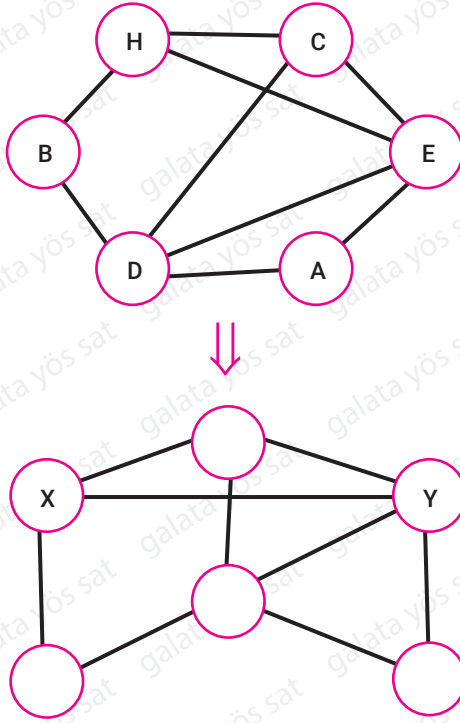
E)

E	C	D	A
H	A	E	F
F	G	C	E
C	H	G	F

6. $44 \% 51 = 43$
 $28 \% 13 = 52$
 $40 \% 48 = 26$
 $15 \% 77 = 37$
 $20 \% 26 = ?$

- A) 14 B) 16 C) 22
D) 24 E) 28

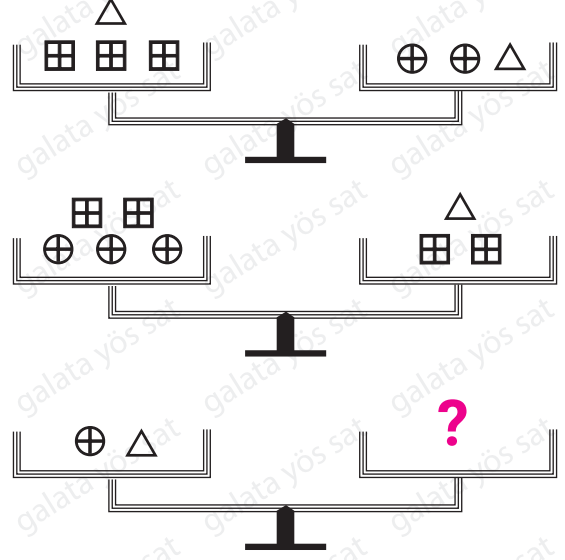
7.



X = ? Y = ?

- | | X | Y |
|----|---|---|
| A) | H | D |
| B) | C | E |
| C) | D | H |
| D) | C | H |
| E) | H | E |

8.



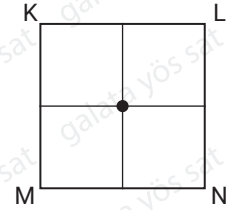
- A) $\square\square\square\oplus\oplus$ B) $\square\square\square\oplus\oplus$ C) $\square\oplus\triangle$
D) $\square\square\square\triangle$ E) $\square\square\oplus\triangle$

9.

4	2	5	2	2	1	2	4
3	8	3	4	4	3	6	3

Yukarıdaki dört özdeş karenin köşeleri 1'den 8'e kadar rastgele numaralandırılmıştır.

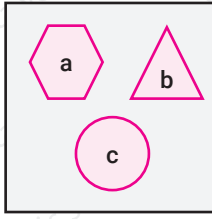
Bu dört kareden aynı numaralı köşeler bir araya gelecek şekilde KLMN karesi oluşturuluyor.



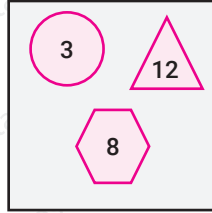
|KN| ve |LM| köşelerinin üzerindeki sayıların toplamı aşağıdakilerden hangisidir?

- A) 53 B) 40 C) 36
D) 27 E) 24

10.



$$= 2 \cdot \left(\frac{3}{2} \cdot a + \frac{b}{3} + c^2 \right)$$



$$= ?$$

- A) 38 B) 46 C) 50 D) 64 E) 70

11.

X	x	y	z
x			2 · z
y	3 · x		
z			y - 2z

$$x \cdot y \cdot z = ?$$

- A) -18 B) -12 C) 12 D) 18 E) 28

12.

$$\begin{array}{r} G L T \\ T G L \\ + L T G \\ \hline 2 8 8 6 \end{array}$$

$$\Rightarrow G + L + T = ?$$

- A) 22 B) 24 C) 25 D) 26 E) 27

13.

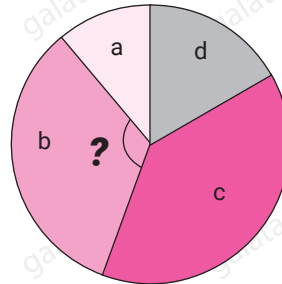
+	a	b	c
a	b + 1		
b		c + 2	
c			6a

$$a + c - b = ?$$

- A) 6 B) 8 C) 9 D) 10 E) 11

14.

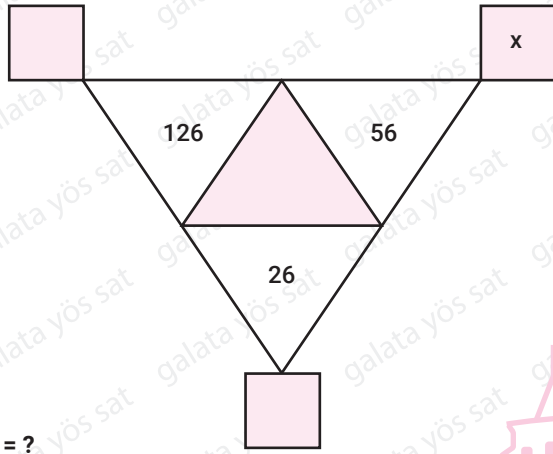
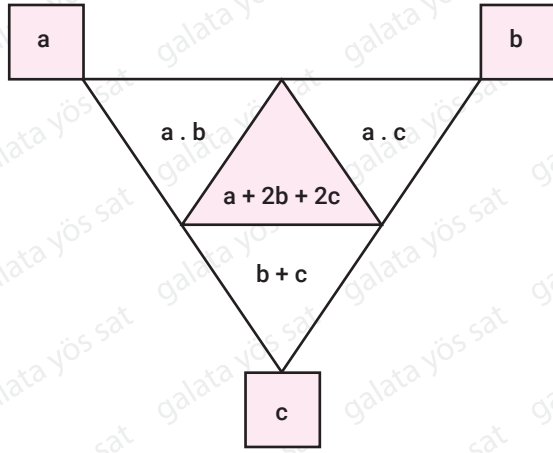
a	b	c	d
2	6	7	3



$$b = ?$$

- A) 40 B) 60 C) 100 D) 120 E) 140

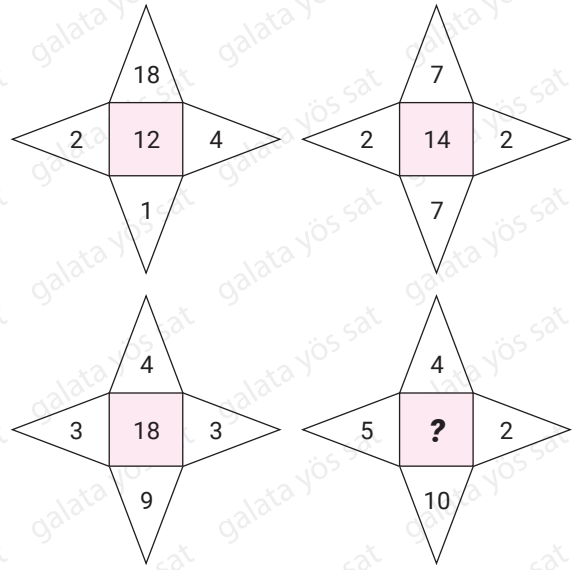
15.



$x = ?$

- A) 12 B) 14 C) 18 D) 24 E) 36

17.



- A) 16 B) 20 C) 22 D) 24 E) 26

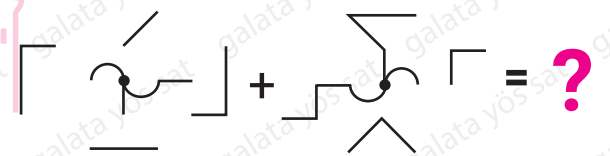
16.

$$TT2 - 4RR = P28$$

$$P + R + T = ?$$

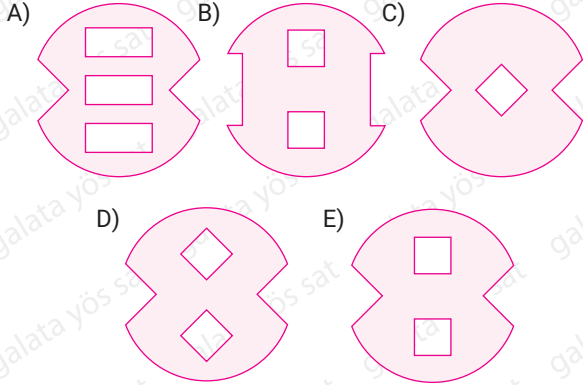
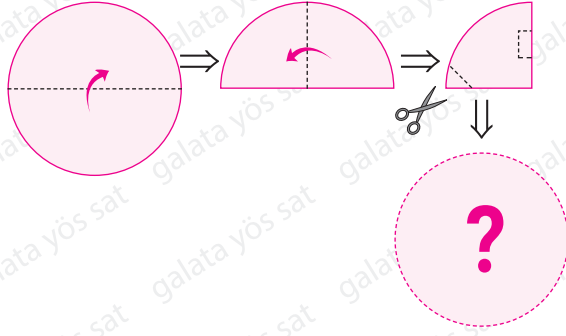
- A) 11 B) 12 C) 13 D) 14 E) 15

18.

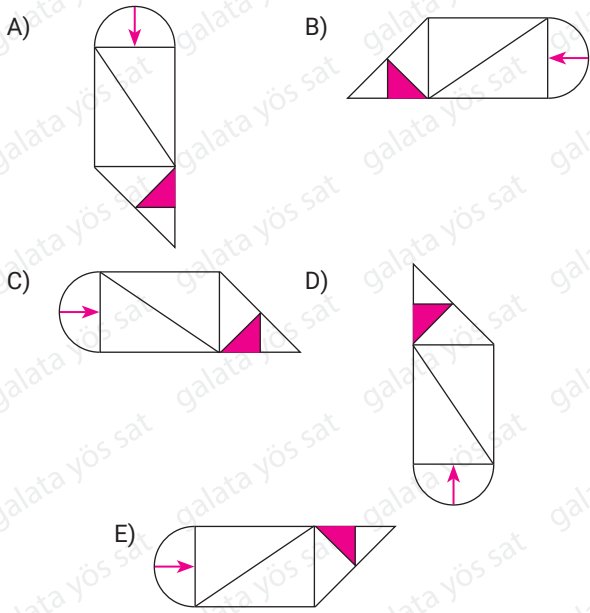


- A) B) C) D) E)

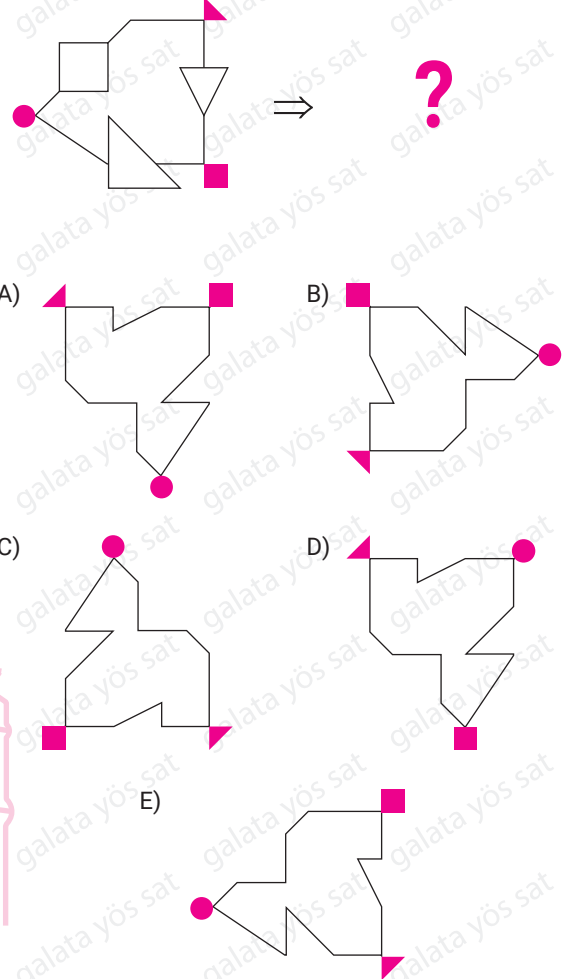
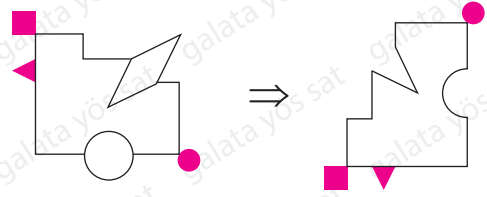
19.



20. Aşağıdakilerden hangisi diğerlerinden farklıdır?



21.

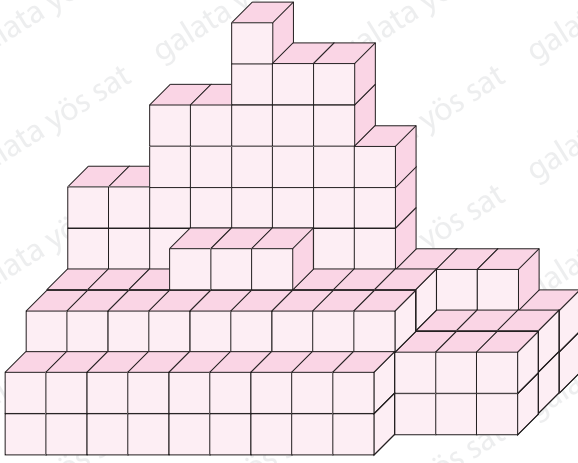


22. % ? ! = + ÷ * % ? ! = + ÷ * % ...

Yukarıdaki şekil dizisinde 2107. terim hangi şekil olur?

A) % B) + C) * D) ÷ E) ?

23.



A) 152

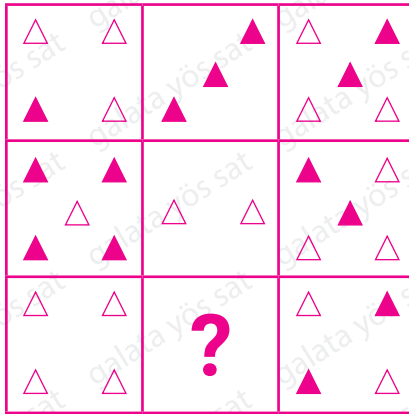
B) 153

C) 154

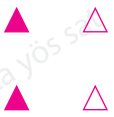
D) 155

E) 156

24.



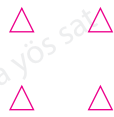
A)



B)



C)



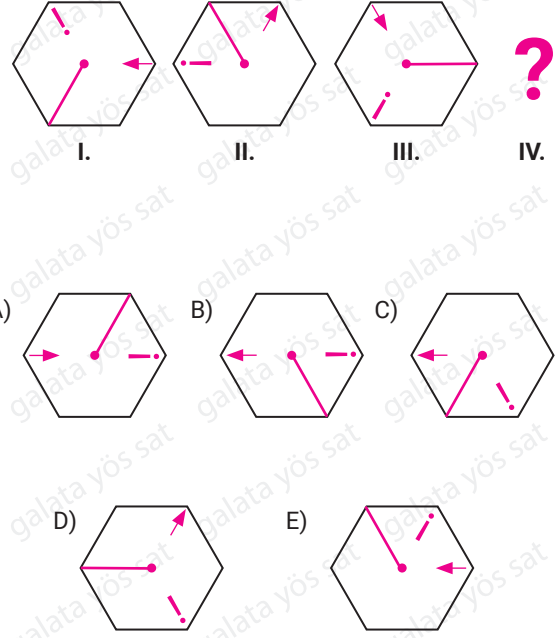
D)



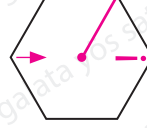
E)



25.



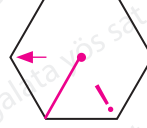
A)



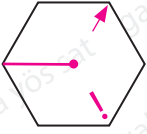
B)



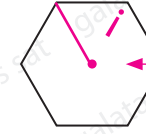
C)



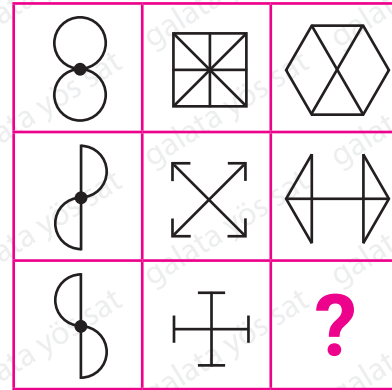
D)



E)



26.



A)



B)



C)



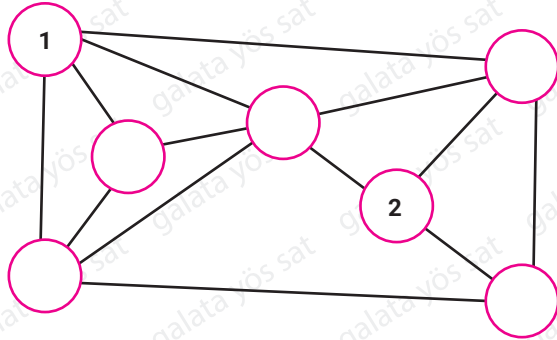
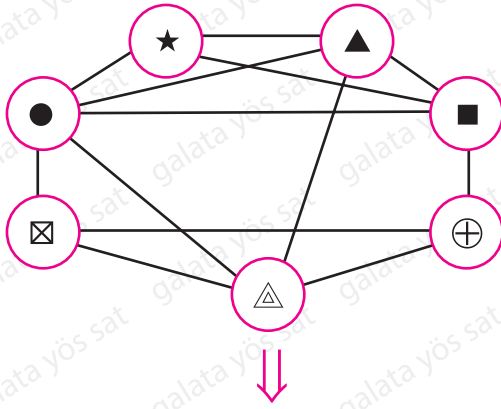
D)



E)



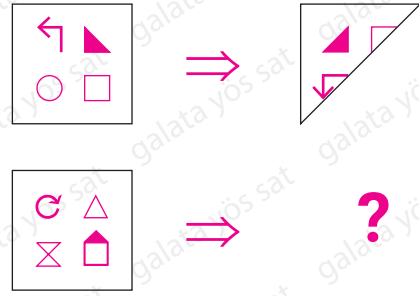
27.



(1, 2) = ?

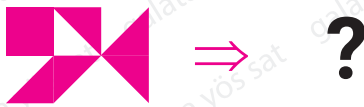
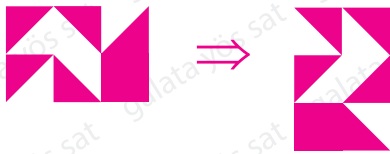
- A) ▲, ★ B) ▲, ★ C) ▲, □
D) ■, ⊕ E) ■, ▲

29.



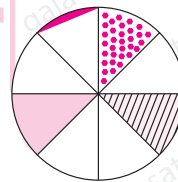
- A) B) C) D) E)

28.



- A) B) C) D) E)

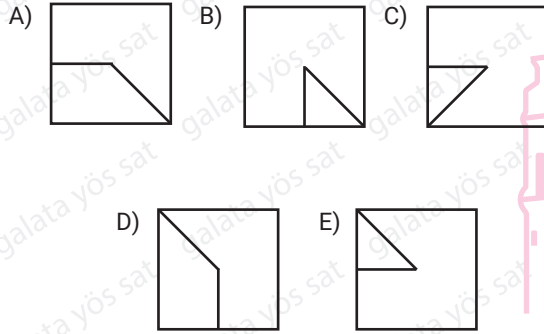
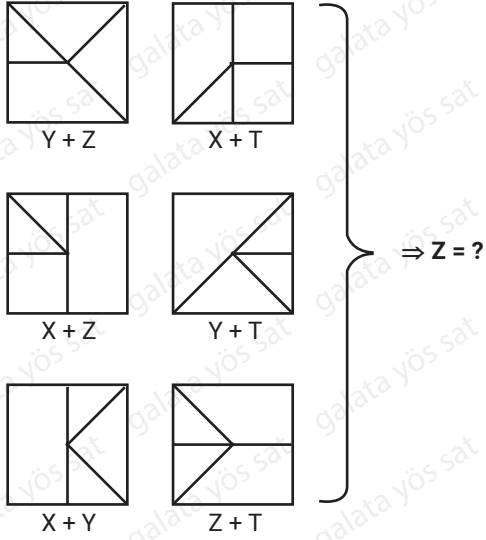
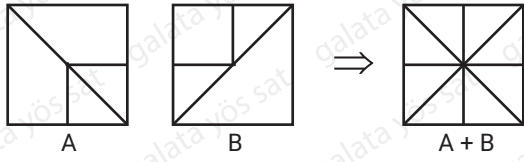
30.



Yukarıdaki şekil saat yönünün tersine 90° döndürülürse aşağıdakilerden hangisi elde edilir?

- A) B) C) D) E)

31.

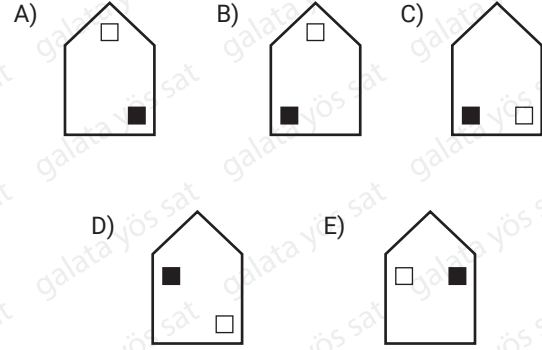
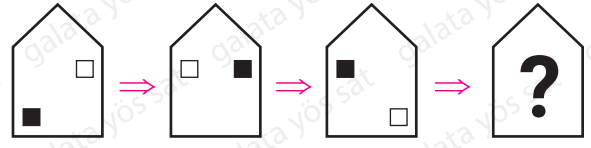


32.

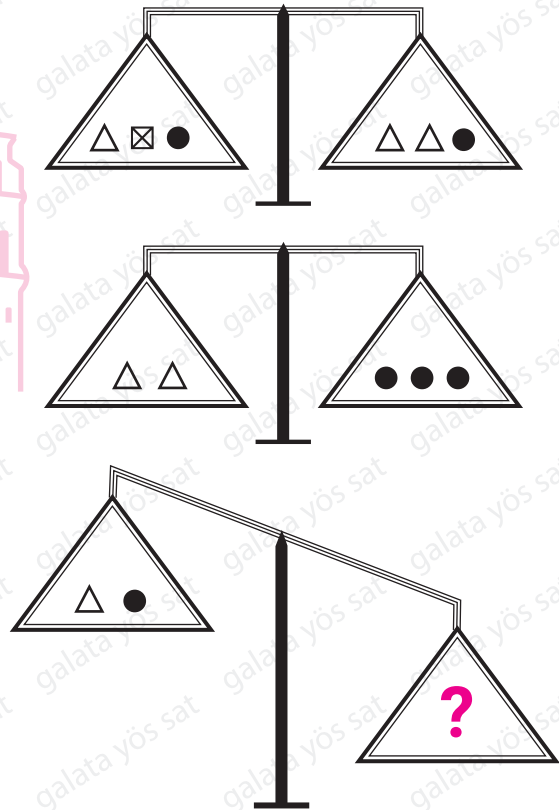
NİKE	2356	5693
TANK		
İKRA	9372	3598
RİTN		
KERİ	7825	
ENİR = ?		

- A) 6278 B) 6239 C) 6892
D) 6957 E) 6325

33.



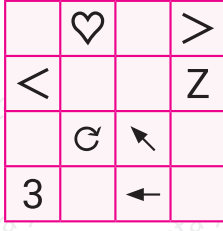
34.



Soru işareti (?) yerine aşağıdakilerden hangisi gelemez?

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

35.



?

Verilen şeklin çubuğa göre yatay simetrisi aşağıdaki-
lerden hangisidir?

- A)

<		♥	
Σ			<
	↗	↻	
	→		ε
- B)

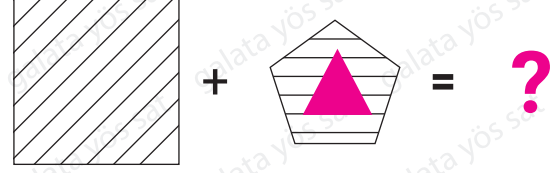
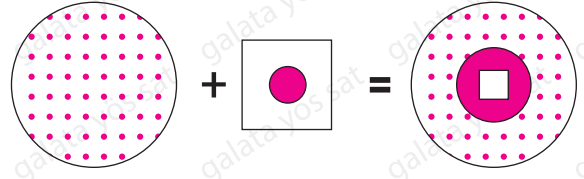
	♥		<
>			Σ
	↻	↗	
ε		→	
- C)

	♥		<
>			Z
	↻	↗	
ε		→	
- D)

<		♥	
Σ			>
	↗	↻	
	→		ε
- E)

>		♥	
Σ			<
	↗	↻	
	→		ε

36.



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

37. 48 → 24 - 16 - 12 - 8 - 6 - 3 - 2 - 1

28 → 14 - 7 - 4 - 2 - 1

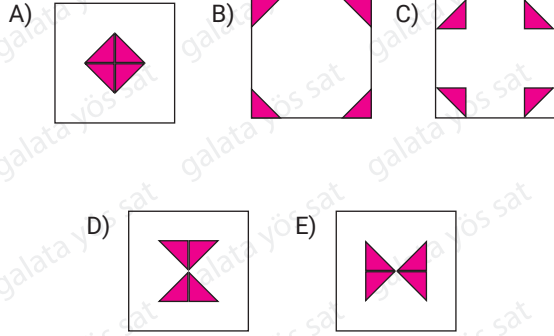
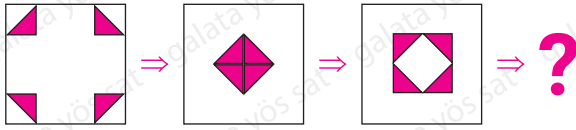
33 → 11 - 3 - 1

18 → ?

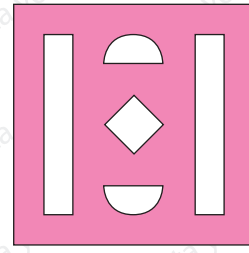
A) 9 - 2 - 1 B) 9 - 6 - 3 - 1 C) 9 - 3 - 1

D) 9 - 6 - 3 - 2 - 1 E) 9 - 6 - 2 - 1

38.

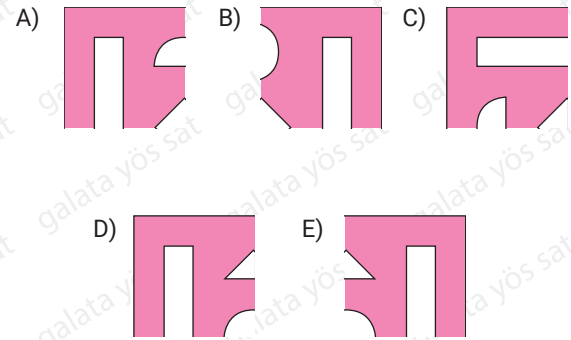


40.

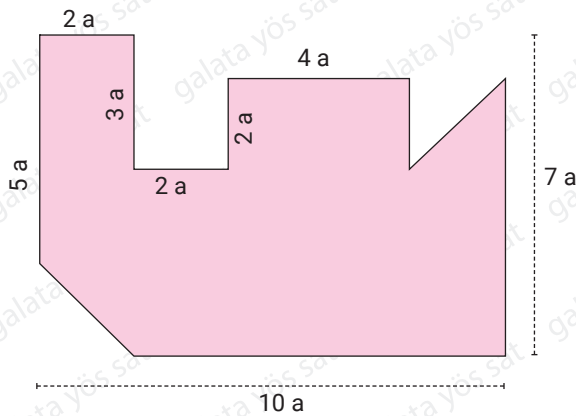


Yukarıdaki şekil kesilen parçalar çıkarıldıktan sonra konumu değiştirilmeden katlandığı yerlerden tamamen açılıp elde ediliyor.

Buna göre, kağıdın açılmadan önceki hâli aşağıdakilerden hangisidir?



39.



Taralı alan kaç a^2 'dir?

- A) 60 B) 54 C) 50 D) 48 E) 46

IQ testi soruları bitti.
Matematik ve Geometri testine geçiniz.

IQ test questions are over.
Pass the math and geometry test.

انتهت أسئلة اختبار الذكاء.

خذ اختبار الرياضيات والهندسة.



MATEMATİK

1. $1 + \frac{1}{1 + \frac{1}{2}} : \frac{2}{3}$

işleminin sonucu kaçtır?

A) $\frac{2}{5}$

B) $\frac{1}{2}$

C) 1

D) 2

E) $\frac{5}{2}$

2. a ve b sıfırdan farklı birer rakamdır.

$$\frac{0,a}{0,aaa\dots} + \frac{0,b}{0,0b0b\dots} = ?$$

A) 12

B) 18

D) 21,2

E) 10,8

C) 18,9

3. $\left(1 - \frac{1}{5}\right)\left(1 - \frac{1}{6}\right)\left(1 - \frac{1}{7}\right)\dots\left(1 - \frac{1}{2m}\right) = \frac{1}{41}$

olduğuna göre, m tamsayısı kaçtır?

A) 40

B) 41

C) 80

D) 82

E) 164

4. KL, KK, LL ve LK iki basamaklı birer sayıdır.

$$\begin{array}{r} K L \\ K K \\ L L \\ + L K \\ \hline 264 \end{array}$$

olduğuna göre, K + L toplamı kaçtır?

A) 11

B) 12

C) 13

D) 14

E) 15

5. $\frac{1}{x^2 + x} + \frac{1}{x^2 + 3x + 2} + \frac{1}{x^2 + 5x + 6} = 1$

$$\Rightarrow x^2 + \frac{9}{x^2} = ?$$

A) 16

B) 15

C) 9

D) 4

E) 1

6. ab iki basamaklı bir doğal sayıdır.

$$ab + a = 5 \cdot (a + b)$$

olduğuna göre, ab sayısı en az kaçtır?

- A) 12 B) 21 C) 23
D) 32 E) 43

7. x ve y doğal sayılardır.

$$y^2 - 11 = \frac{x^2 + 7}{4}$$

olduğuna göre, x 'in alabileceği değerler toplamı kaçtır?

- A) 7 B) 14 C) 25
D) 27 E) 32

8. x, y ve z negatif tamsayılarıdır.

$$x^2 + 3z = 0$$

$$\frac{y}{z} = \frac{5}{2}$$

olduğuna göre,

$$\max(x + y + z) = ?$$

- A) -24 B) -32 C) -36
D) -42 E) -48

9. $(25)^{14} \cdot (64)^5 + 2001^7$

sayısı kaç basamaklıdır?

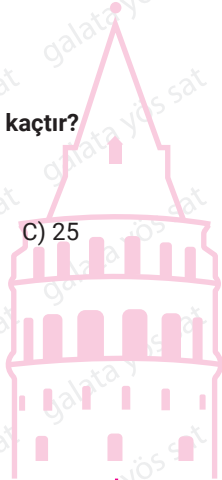
- A) 26 B) 27 C) 28
D) 29 E) 30

10. $x \in \mathbb{R}$,

$$(125)^x - 5^{x+1} + 2 = 0$$

5^x 'in alabileceği değerler toplamı kaçtır?

- A) $\sqrt{2} + 1$ B) $\sqrt{2} - 1$ C) 0
D) $\sqrt{5} + 1$ E) $\sqrt{5} - 1$



11. $3 < x < y$

$$\sqrt{x^2 - 6x + 9} - 4\sqrt{(3 - y)^4} + 3\sqrt{(x - y)^3} = ?$$

A) $x - y$

B) $2x - 2y$

C) $2y - x$

D) $x - y + 3$

E) $y - x + 3$

12.

$$\begin{array}{r} A \\ \hline 2 \end{array} \begin{array}{r} 5 \\ B \end{array}$$

$$\begin{array}{r} A + 6 \\ \hline C \end{array} \begin{array}{r} B + 1 \\ 5 \end{array}$$

Yukarıdaki bölme işlemlerine göre, C kaçtır?

A) 1

B) 2

C) 3

D) 4

E) 5



13.

A = $2024 \cdot 2027$

B = $2021 \cdot 2023$

olduğuna göre, $A^2 + B^2$ sayısının 9 ile bölümünden kalan kaçtır?

A) 2

B) 4

C) 5

D) 7

E) 8

14. $a! + b! = 10 \cdot a!$

olduğuna göre, a + b toplamının alabileceği en küçük değer kaçtır?

A) 8

B) 10

C) 15

D) 17

E) 23

15. a ve b doğal sayılardır.

$60! = 72^a \cdot b$

olduğuna göre, a'nın en büyük değeri kaçtır?

A) 14

B) 16

C) 22

D) 25

E) 28

16. $x, y \in \mathbb{Z}^+$

$$6x^2 + 3xy - 3y^2 = 51$$

olduğuna göre $x \cdot y$ çarpımı kaçtır?

- A) 36 B) 48 C) 54
D) 66 E) 72

17. $\frac{0,06 \cdot x - 0,4}{0,2 \cdot x - 0,05} = \frac{2}{5}$

olduğuna göre, x kaçtır?

- A) -21 B) -19 C) -7
D) 8 E) 25

18. $3ab = 4bc = 6ac$

olduğuna göre, $\frac{b}{a} + \frac{c}{b} + \frac{a}{c}$ toplamı kaçtır?

- A) $\frac{4}{3}$ B) 2 C) $\frac{8}{3}$
D) $\frac{10}{3}$ E) 4

19. a ve b gerçel sayılardır.

$$a < a^2 < a^3 \text{ olmak üzere,}$$

$$5a + 4b = 13$$

eşitliğini sağlayan b 'nin alabileceği doğal sayı değerlerinin toplamı kaçtır?

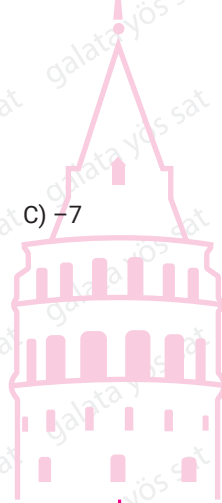
- A) 1 B) 3 C) 6 D) 10 E) 15

20. $-2 < x < 2$ olmak üzere,

$$|2x + |x - 2||$$

ifadesi aşağıdakilerden hangisine eşittir?

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



21. $|x - 2| \cdot |x + 1| < 7$

eşitsizliğini sağlayan kaç tane negatif olmayan tam sayı vardır?

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

22. $2^x = 5$
 $\frac{(4)^{x+1} + 2^x}{4^x - 2^{x+1}} = ?$

- A) 2 B) 3 C) 5 D) 7 E) 8

23. $\sqrt{(x - 3)^2} = 3x - 1$

eşitliğini sağlayan x değerlerinin toplamı kaçtır?

- A) 0 B) 1 C) 2 D) 3 E) 5

24. $\frac{1}{x} - \frac{1}{y} = 2$
 $x - y = 6$

olduğuna göre, $x^3 - y^3$ işleminin değeri kaçtır?

- A) 162 B) 216 C) 270 D) 288 E) 320

25. A, B ve C birbirinden farklı kümelerdir.

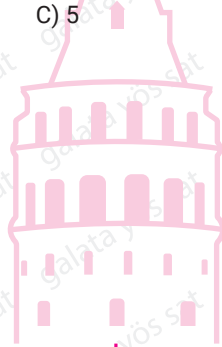
$A \subseteq B \subseteq C$

$s(A) + s(B) = 13$

$s(B) + s(C) = 25$

olduğuna göre, $s(C - B) + s(B - A)$ kaçtır?

- A) 6 B) 8 C) 9 D) 10 E) 12



26. \mathbb{Z} tamsayılar kümesi olmak üzere,

$$A = \left[-\sqrt{30}, \frac{20}{7} \right]$$

$$B = \left[\frac{-20}{7}, \sqrt{37} \right]$$

olduğuna göre, $A \cap B \cap \mathbb{Z}$ kümesinin eleman sayısı kaçtır?

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

27. $n \in \mathbb{Z}$ ve $x \in [n, n+1)$

$$f(x) = 2x + 3n$$

$$f(2) + f\left(-\frac{7}{2}\right) = ?$$

- A) -9 B) -12 C) -6 D) 3 E) 5

28. $f(x) - x \cdot f(x-1) = f(x-1)$

$$f(1) = 40$$

$$f(18) = ?$$

- A) 18! B) 19! C) 20! D) 21! E) 22!

29. f: sabit fonksiyon

g: birim fonksiyon

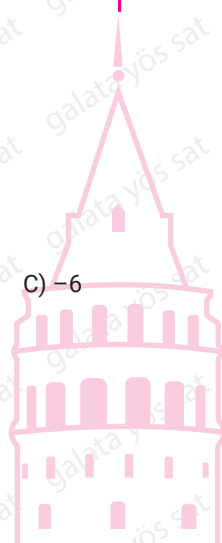
h: doğrusal fonksiyon

$$g(2 \cdot f(x) - 1) = 17$$

$$h(g(3x+1)) = 12x - 1$$

$$(f - g \cdot h)(2) = ?$$

- A) 9 B) 7 C) 6 D) 5 E) 3



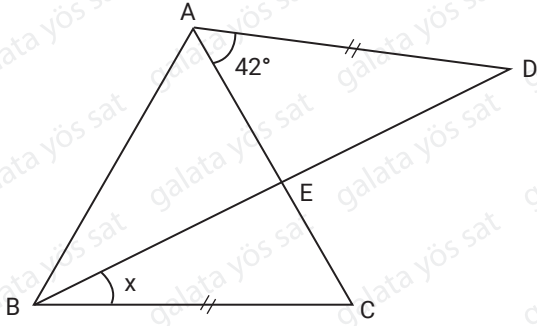
30. $p(x) = 3x^4 + 2 \cdot x^3 - x^2 + 5x - 1$

polinomunun $x^2 + 1$ ile bölümünden kalan aşağıdaki-lerden hangisidir?

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

GEOMETRİ

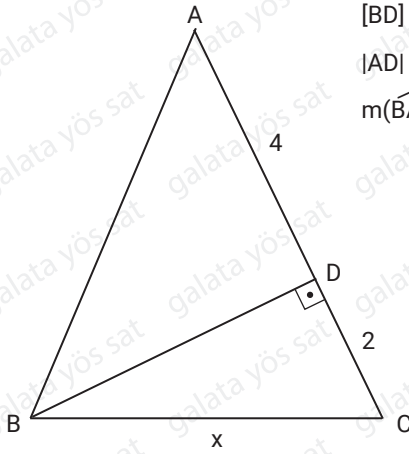
1.



ABC eşkenar üçgen, $|AD| = |BC|$, $m(\widehat{CAD}) = 42^\circ$
 $m(\widehat{DBC}) = x = ?$

- A) 19 B) 20 C) 21 D) 22 E) 23

2.



$[BD] \perp [AC]$
 $|AD| = 2 |DC| = 4$
 $m(\widehat{BAC}) = 2 \cdot m(\widehat{DBC})$

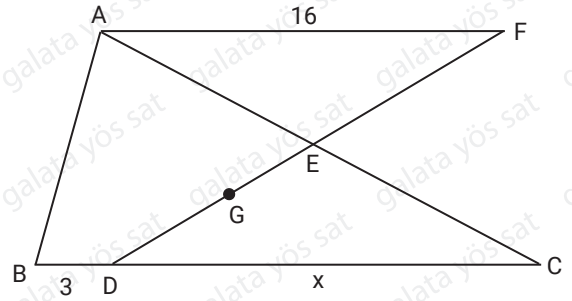
$|BC| = x = ?$

- A) $2\sqrt{5}$ B) $2\sqrt{6}$ C) 5 D) $2\sqrt{7}$ E) 6

3. $A(-1, 3)$ noktasının $x + y - 1 = 0$ doğrusuna göre simetriği olan nokta $ax - 2y + 5 = 0$ doğrusu üzerinde olduğuna göre, a değeri kaçtır?

- A) $-\frac{1}{2}$ B) 0 C) $\frac{1}{2}$ D) 1 E) 2

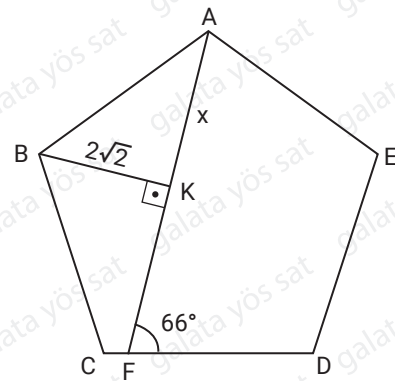
4.



G; $\triangle ABC$ 'nin ağırlık merkezi,
 $[AF] \parallel [BC]$, $|AF| = 16$, $|BD| = 3$
 $|DC| = x = ?$

- A) 18 B) 19 C) 20 D) 21 E) 22

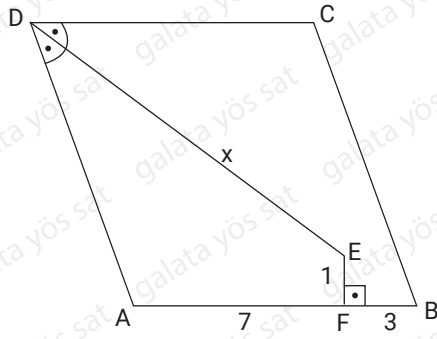
5.



ABCDE düzgün beşgen,
 $m(\widehat{AFD}) = 66^\circ$, $[AF] \perp [BK]$, $|BK| = 2\sqrt{2}$
 $|AK| = x = ?$

- A) 4 B) $2\sqrt{6}$ C) 5 D) $2\sqrt{7}$ E) $\sqrt{30}$

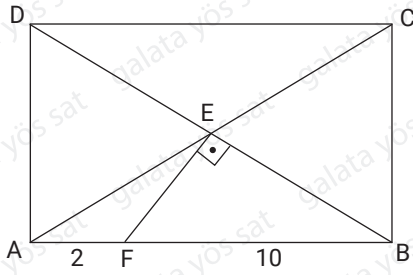
6.



ABCD eşkenar dörtgen, $[DE]$ açıortay,
 $[EF] \perp [AB]$, $|EF| = 1$, $|BF| = 3$, $|AF| = 7$
 $|DE| = x = ?$

- A) $5\sqrt{10}$ B) $10\sqrt{2}$ C) 14 D) $6\sqrt{5}$ E) $5\sqrt{6}$

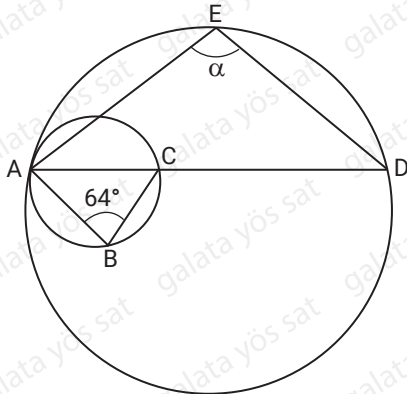
7.



ABCD dikdörtgen, $[EF] \perp [EB]$, $|AF| = 2$, $|BF| = 10$
Alan(ABCD) = ?

- A) $32\sqrt{6}$ B) $40\sqrt{2}$ C) $45\sqrt{3}$ D) $48\sqrt{6}$ E) $50\sqrt{5}$

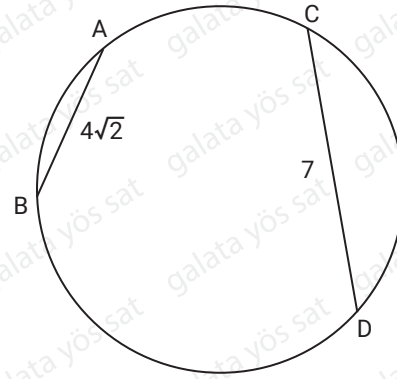
8.



A noktasında çemberler içten teğet, $m(\widehat{ABC}) = 64^\circ$
 $m(\widehat{AED}) = \alpha = ?$

- A) 112 B) 113 C) 114 D) 115 E) 116

9.

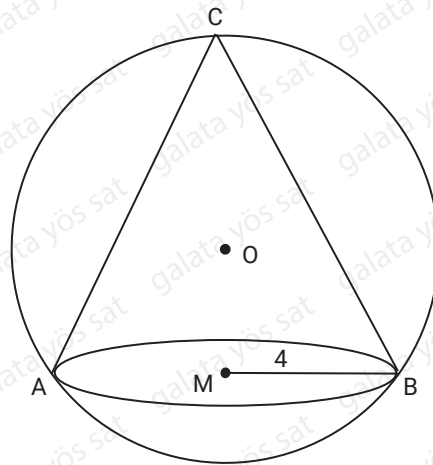


$m(\widehat{AB}) + m(\widehat{CD}) = 180^\circ$, $|AB| = 4\sqrt{2}$, $|CD| = 7$

Çemberin çevresi = ?

- A) 6π B) $2\sqrt{10}\pi$ C) 8π D) 9π E) $2\sqrt{21}\pi$

10.



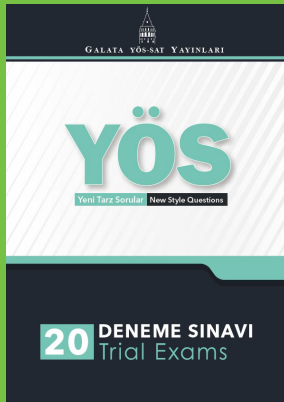
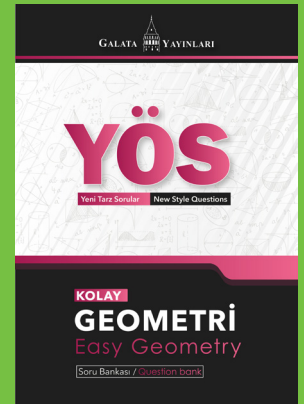
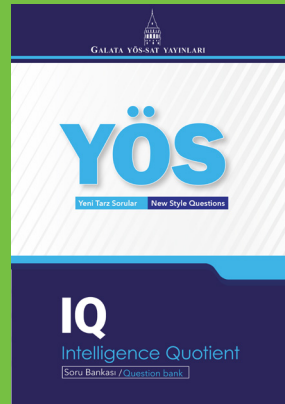
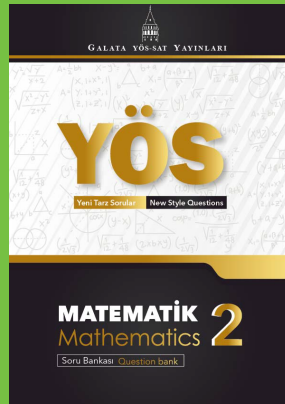
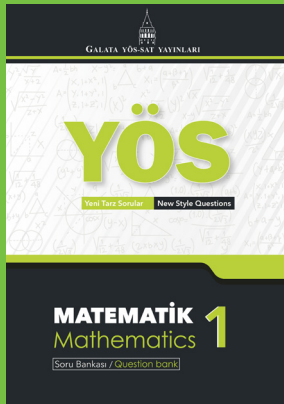
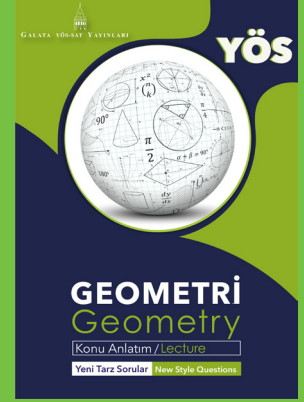
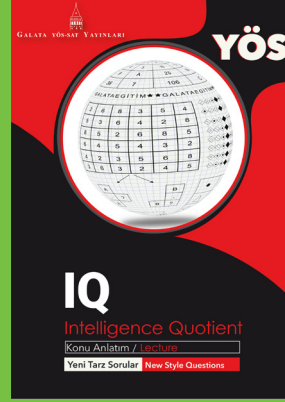
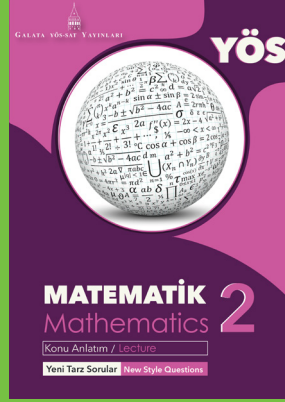
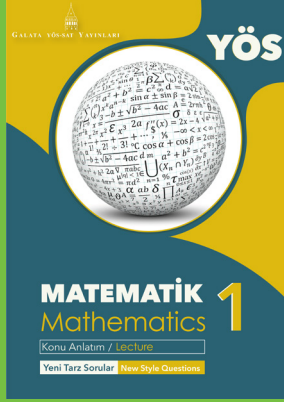
O merkezli kürenin alanı 100π

Kürenin taban yarıçapı $|MB| = 4$

Koninin yüksekliği $|CM| = ?$

- A) 8 B) $6\sqrt{2}$ C) $5\sqrt{3}$ D) 9 E) 10

YAYINLARIMIZ PUBLICATIONS



www.galataegitimyayinlari.com