A

A

KÜTAHYA DUMLUPINAR ÜNİVERSİTESİ
DPÜYÖS 2019

YURTDIŞINDAN ÖĞRENCİ KABUL SINAVI SORU KİTAPÇIĞI

INTERNATIONAL STUDENT ADMISSION TEST BOOKLET

كتيب الامتحان لقبول الطلاب الدوليين

СПРАВОЧНИК ВОПРОСОВ ВСТУПИТЕЛЬНОГО ЭКЗАМЕНА ДЛЯ ИНОСТРАННЫХ АБИТУРИЕНТОВ

Aday No / Candidate No رقم المرشح / № Абитуриента	:
Adı / Name الاسم / Имя	:
Soyadı / Lastname نسبة / Фамилия	:
Uyruk / Nationality الجنسية / Гражданство	:
Sınav Merkezi / Examination Center مركز الامتحان / Экзаменационный центр	:
Sınav Salon No / Examination Room No رقم قاعة الامتحان / № Экзаменационного салона	:

TEMEL ÖĞRENME BECERİLERİ TESTİ

1. Bu test sizin soyut düşünme becerinizi ölçmek için hazırlanmıştır.
2. Bu testte 80 soru vardır, **Sınav süresi 120 dakikadır.**
3. Cevaplamaya istediğiniz sorudan başlayabilirsiniz. Cevaplarınızı işaretlerken soru kitapçığındaki soru numarası ile cevap kâğıdındaki cevap numarasının aynı olmasına dikkat ediniz.
4. Ondalık kesirleri göstermek için Türkçe metinlerde virgül(,) kullanılır.

THE BASIC LEARNING SKILLS TEST

1. This test is designed to measure your abstract reasoning skill.
2. This test is comprised of 80 questions. **The exam duration is 120 minutes.**
3. The questions need not be answered in any special order, but make sure that the number on the answer sheet does indeed correspond to the number of the question you are working on in the test booklet.
4. Decimals are indicated by a comma (,) in Turkish.

اختبار مهارات التعلم الأساسية

1. صمم هذا الامتحان ليقيس مهارتك المنطقية المجردة
2. يتكون الامتحان من ثمانين سؤلا. مدة الامتحان 120 مئة وعشرون دقيقة.
3. لن يجاب عن الأسئلة وفق ترتيب معين. لكن تأكد من أن الرقم في ورقة الإجابة مطابق تماما لرقم السؤال الذي تعمل به في كتيب الأسئلة
4. الكسور العشرية محددة بفاصلة

ТЕСТ ОСНОВНЫХ УЧЕБНЫХ СПОСОБНОСТЕЙ

1. Данный тест разработан с целью оценки вашего абстрактного мышления.
2. Данный тест содержит 80 вопросов. **Продолжительность экзамена 120 минут.**
3. Можете приступать к ответу с любого вопроса теста. При обозначении ответов на вопросы будьте внимательны , чтобы номер вопроса теста совпадал с номером письменного ответа.
4. Чтобы показать десятичные дроби в турецких текстах используется запятая (,).

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1.

I		II
AYNA	→	SKOS
KISA	→	NAIS

⟹ YAKINSAK = ?

A) KSNOAISN B) KSNIOASN C) KSANOISN

D) KSNAOISN E) KSNAIOSN

2. KÜTAHYA = 6543913

⟹ KAHVALTI = ?

A) 63983742 B) 63953741 C) 63973745

D) 63913742 E) 63953742

3. ⊴TENEKE = NEKTEE

TAHTA◉ = ATHAT

⊴ELBİSE◉ = ELESİB

⟹ ⊴SANDAL◉ = ?

A) LADNAS B) LASADN C) NDASAL

D) DNALAS E) SALAND

4.

I	II
TRKML	60714
RMSTK	71630
LKMRT	03167
KLTSM	17046
MTLKS	36401

⟹ RMSTK = ?

A) 60714 B) 71630 C) 03167

D) 17046 E) 36401

5.

7 2 4 9 6 ≡ 1315
6 2 1 3 4 ≡ 97
8 5 3 1 6 ≡ 167

2 8 4 3 9 ≡ ?

A) 1513 B) 9797 C) 1412

D) 1567 E) 1439

6.

I. 7 ⊙ 5 ⊟ 2 △ 4 = 4
II. 6 ⊟ 4 △ 2 ⊙ 5 = 3
III. 4 △ 3 ⊟ 2 ⊙ 7 = 17
IV. 4 ⊙ 8 △ 3 ⊟ 9 = ?

A) 15 B) 16 C) 17 D) 18 E) 19

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7. $3 \blacksquare 4 = 12$
$2 \blacksquare 8 = 11$
$4 \blacksquare 7 = 22$
$5 \blacksquare 9 = ?$

A) 33 B) 34 C) 35 D) 36 E) 37

8. $7 \square 4 = 5$
$1 \square 1 = 2$
$3 \square 2 = 5$
$4 \square 3 = ?$

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

9. $18 \ominus 21 = 9$
$45 \ominus 90 = 0$
$16 \ominus 12 = 4$
$67 \ominus 12 = ?$

A) 12 B) 25 C) 32 D) 36 E) 40

10.

4	7	2	5
3	8	9	8
7	14	4	A
6	8	5	7

Sonuç/Result/Resultat /результат/النتيجة

A = ?

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

11.

6	4	2	8	40
1	5	7	4	33
4	3	6	2	**A**
1	7	6	5	37

A = ?

A) 20 B) 22 C) 24 D) 26 E) 28

12.

x	a	b
a	2a	
c		

+	a	b
a		4c
c		18

$a, b, c > 0 \implies b = ?$

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

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13.

+	a	b	c
a		38	
b			26
c	2b		

a, b, c > 0 $\Longrightarrow$ b = ?

A) 12 B) 13 C) 14 D) 15 E) 16

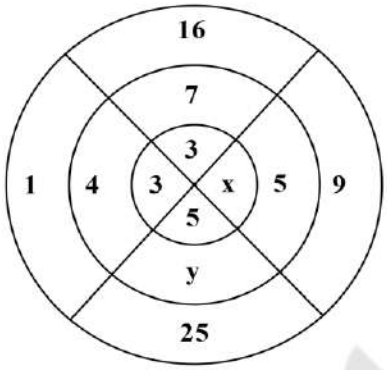
14.

+	a	b	c
a		2c-7	
b			15
c	2b+8		

$\Longrightarrow$ a = ?

A) 7 B) 8 C) 9 D) 10 E) 11

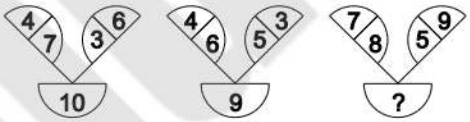
15.



$\Longrightarrow$ x+y = ?

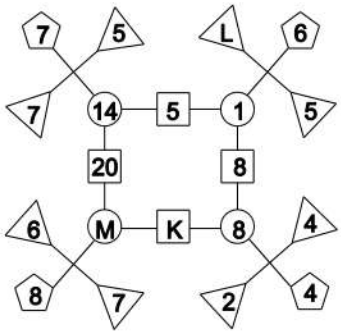
A) 10 B) 13 C) 11 D) 12 E) 14

16.



A) 7 B) 8 C) 11 D) 12 E) 13

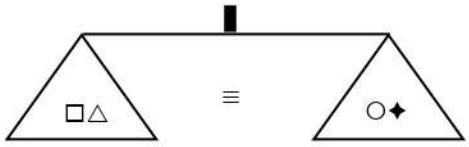
17.

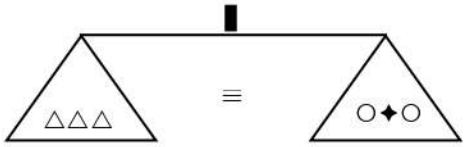


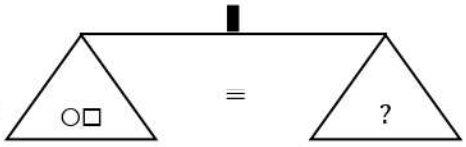
$\Longrightarrow$ K+L+M = ?

A) 60 B) 64 C) 62 D) 63 E) 61

18.

I. 

II. 

III. 

Yukarıdaki terazilerin üçü de dengede olduğuna göre, III. terazide soru işareti aşağıdakilerden hangisini göstermektedir?

All three scales above are in balance. Which of the following does the question mark stand for in the third scale?

Die oben abgebildeten drei Waagen stehen alle im Gleichgewicht. Folglich, was zeigt das Fragezeichen bei der Waage lll an?

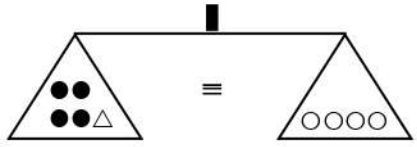
Все три весы должны находиться в равновесии. Каким из вариантов ответов, указанных ниже, следует заменить вопросительный знак, так, что бы весы по прежнему оставались в равновесии?

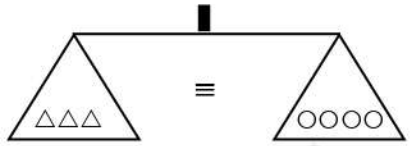
ما الشكل المناسب لوضعه بدلاً من أداة الاستفهام الموجودة في الميزان الثالث، اذا ما كانت الموازين الثلاثة الواردة أعلاه متساوية ؟

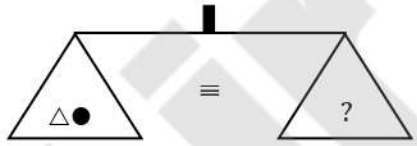
A) △ B) △△ C) △△△

D) △△△△ E) △△△△△

19.

I. 

II. 

III. 

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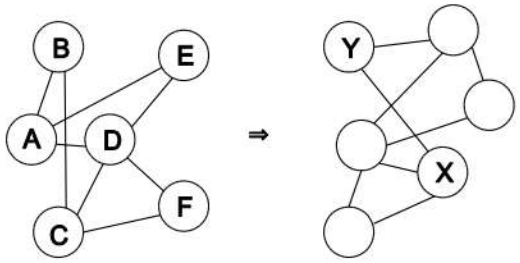
ما الشكل المناسب لوضعه بدلاً من أداة الاستفهام الموجودة في الميزان الثالث، اذا ما كانت الموازين الثلاثة الواردة أعلاه متساوية ؟

A) ○ B) ○○ C) ○○○

D) ○● E) ●●

20.

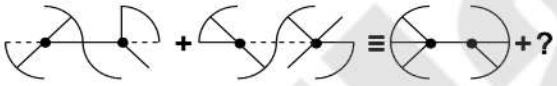


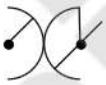
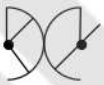
$\Longrightarrow$ X ; Y = ? ; ?

A) E ; B B) A ; E C) B ; F

D) C ; E E) A ; B

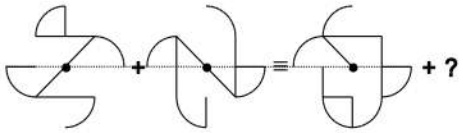
21.

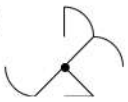
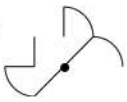
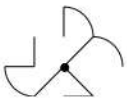


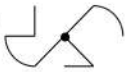
A)
B) 
C) 

D)
E)

22.



A) 
B) 
C) 

D) 
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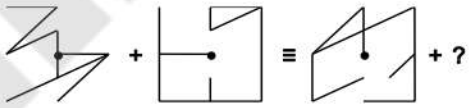
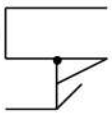
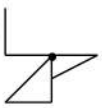
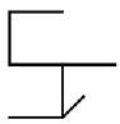
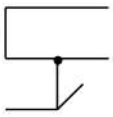
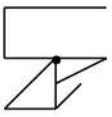


A) 
B) 
C) 

D) 
E) 

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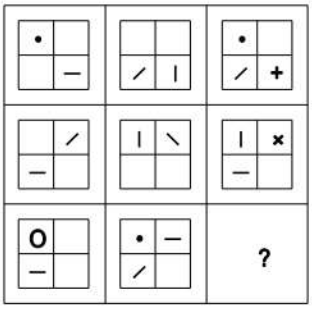
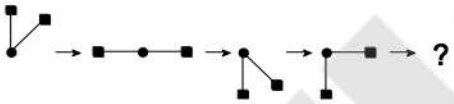
24.



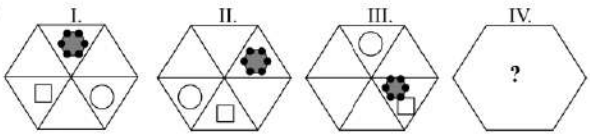
A)
B)
C)
D)
E)

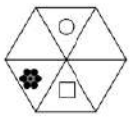
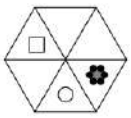
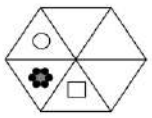
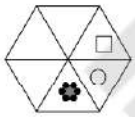
25.



A)
B)
C)
D)
E)

26.



A) 
B) 
C) 
D) 
E)

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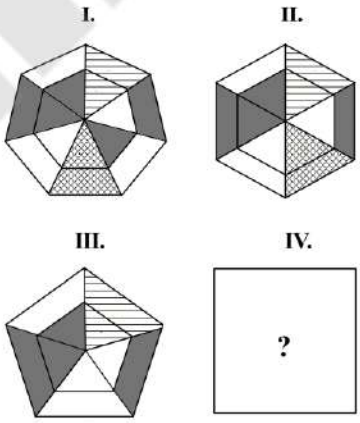
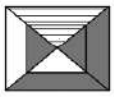
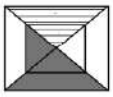
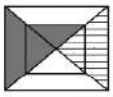
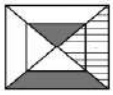
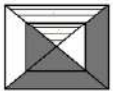


A) 
B) 
C) 
D) 
E) 

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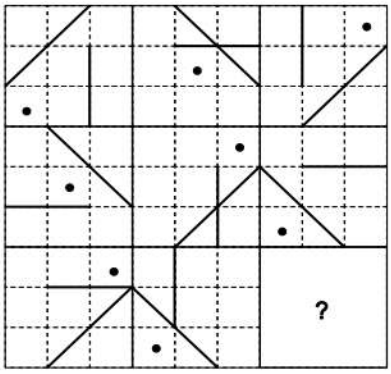
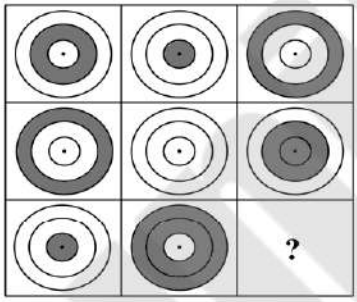
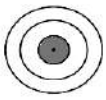
28.



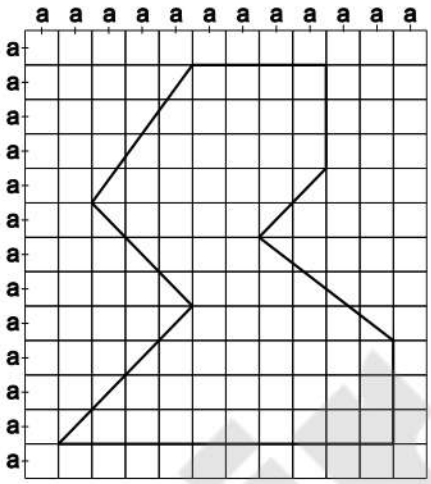
A)
B)
C)
D)
E)

29.



A)
B)
C) 
D)
E)

30.

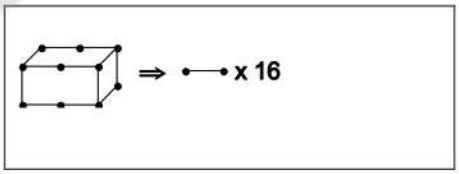


$\Longrightarrow$ Çevre/Perimeter/периметр/محيط = ? a

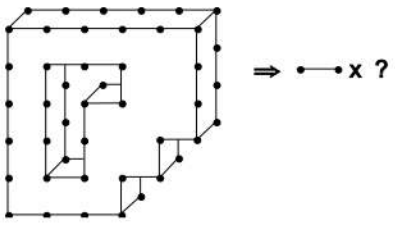
A) 30 B) $30\sqrt{2}$ C) $27 + 9\sqrt{2}$

D) 27 E) $30 + 9\sqrt{2}$

Örnek / *Example* / Beispiel / *Пример* / مثال

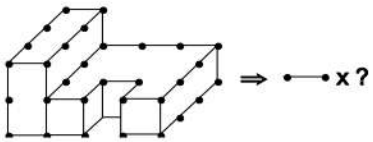


31.



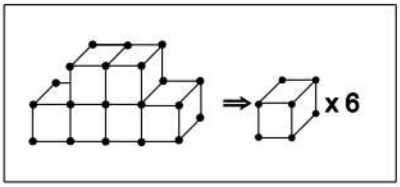
A) 71 B) 72 C) 73 D) 74 E) 75

32.



A) 53 B) 54 C) 55 D) 56 E) 57

Örnek / *Example* / Beispiel / *Пример* / مثال



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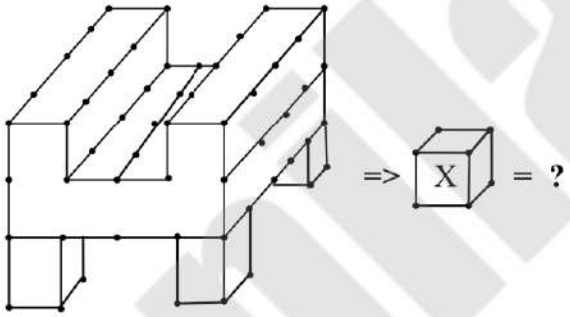
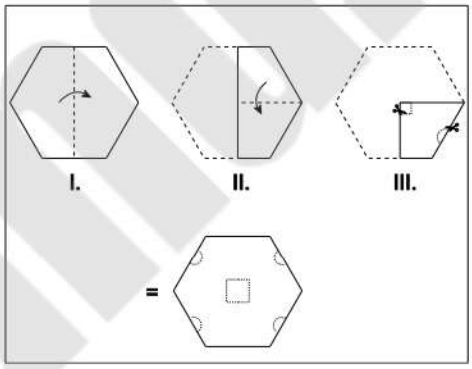


A) 28 B) 40 C) 32 D) 34 E) 46

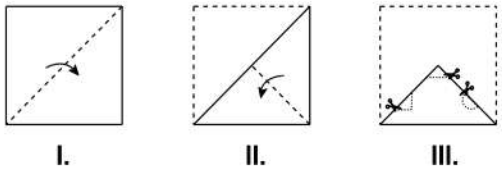
34. 1 3 10 41 ? 1237

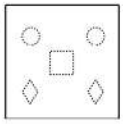
A) 202 B) 206 C) 204 D) 200 E) 208

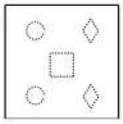
Örnek / *Example* / Beispiel / *Пример* / مثال

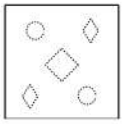


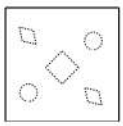
35.

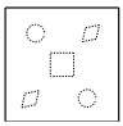


A) 

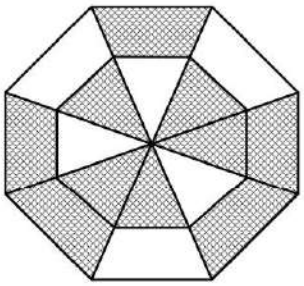
B) 

C) 

D) 

E) 

36.



Şeklin yüzde kaçı gölgelidir?

What percentage of the figure is shaded?

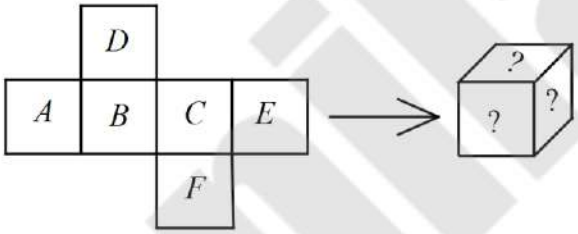
Wie viel Prozent von Sheklin ist schattig?

Какой процент Шеклина темнеет?

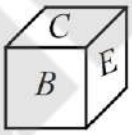
ما نسبة شيكلن غامضة؟

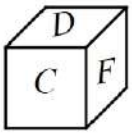
A) $\frac{5}{9}$ B) $\frac{8}{5}$ C) $\frac{5}{8}$ D) $\frac{9}{8}$ E) $\frac{9}{5}$

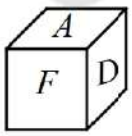
37.



A)

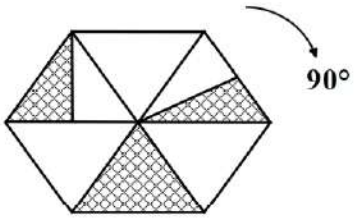
B) 

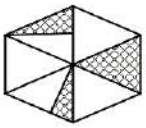
C) 

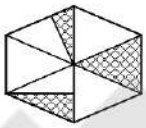
D) 

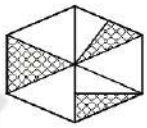
E)

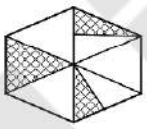
38.

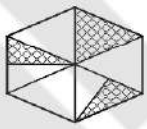


A) 

B) 

C) 

D) 

E) 

Ulilamr

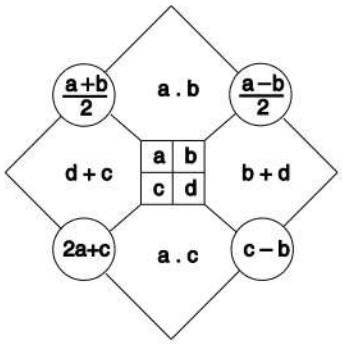
Her soru birbirinden bağımsız cevaplanacaktır. (39-41)

Each question is to be answered independently.(39-41)

Alle Fragen müssen unabhängig voneinander beantwortet werden. (39-41)

Задания решать в не зависимости друг от друга. (39-41)

اجب على الأسئلة بشكل مستقل (39-41)



Yukarıdaki şekil a, b, c ve d harfleriyle gösterilen dört pozitif sayı ve bu sayıları içeren bazı işlemlere göre düzenlenmiştir. Harflerin gösterdiği sayılar her soruda farklı olabilir.

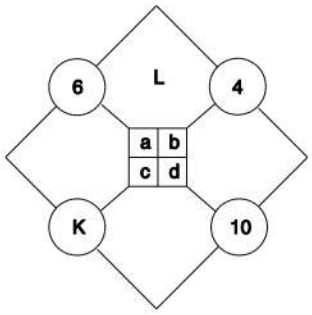
In the figure above, a, b, c ve d stand for four positive integers and various operations conceming these integers are shown. The numerical value of the letters may change from question to question.

a,b,c und d sind vier positive Zahlen. Die Figur besteht aus einigen Rechnungen, die mit diesen Zahlen gemacht wurden. Die Zahlen, die für eine Zahl stehen, können bei jeder Frage anders sein.

На приведенной выше фигуре a, b, c и d четыре натуральные числа и эти буквы расположены в соответствии с различными операциями. Численные значения букв могут меняться в каждом вопросе.

في الشكل أعلاه الاحرف d,c,b,a تمثل اربع ارقام موجبة تم القيام بعمليات حسابية بينها. قيمة الاحرف قد تختلف من سؤال الى آخر

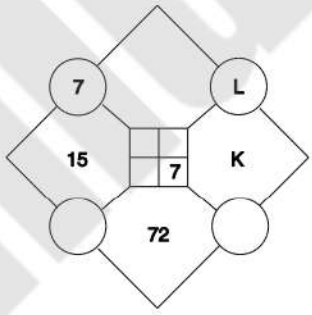
39.



$\Longrightarrow$ K+L = ?

A) 53 B) 52 C) 51 D) 50 E) 49

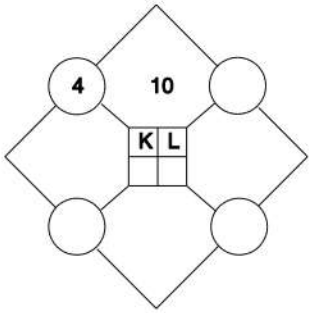
40.



$\Longrightarrow$ K+L = ?

A) 17 B) 16 C) 15 D) 14 E) 13

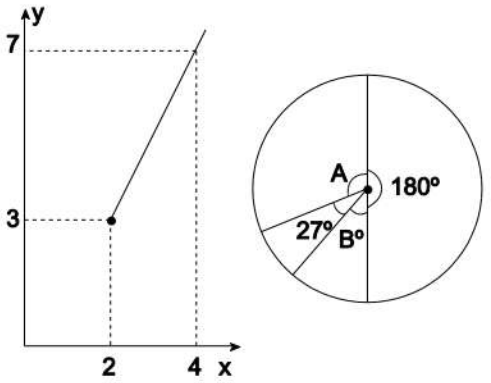
41.



$\Longrightarrow K^2 + L^2 = ?$

A) 24 B) 28 C) 44 D) 48 E) 84

42.



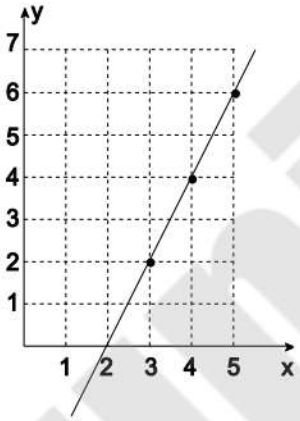
x = 23,

y = B,

⇒ A = % ?

A) 30 B) 60 C) 70 D) 75 E) 80

43.



$x = 58$

$\Rightarrow y = ?$

A) 110 B) 112 C) 114 D) 116 E) 118

44.

$$\begin{array}{r|l} \text{abcabc10} & \text{abc} \\ \hline - & \text{B} \\ \hline \text{K} & \end{array} \qquad \Rightarrow \text{K+B} = ?$$

A) 100110 B) 10110 C) 100011

D) 1000110 E) 1110

45.

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

$\Rightarrow K + L + M + N = ?$

A) 13 B) 16 C) 12 D) 15 E) 14

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46. $\dfrac{9}{8+\dfrac{9}{8+\frac{9}{\vdots}}} - \dfrac{8}{16-\dfrac{64}{16-\frac{64}{\vdots}}} = ?$

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

47. $\dfrac{1}{56}+\dfrac{1}{72}+\dfrac{1}{90} = ?$

A) $\dfrac{1}{32}$ B) $\dfrac{3}{56}$ C) $\dfrac{1}{12}$ D) $\dfrac{3}{70}$ E) $\dfrac{7}{90}$

48. $\dfrac{4+\frac{1}{2}}{1-\frac{1}{4}} - \dfrac{1}{2} = ?$

A) $\dfrac{9}{2}$ B) $\dfrac{11}{2}$ C) 5 D) 6 E) $\dfrac{13}{2}$

49. $x < 0 \Rightarrow$

$\sqrt{x^2-2x+1} + \sqrt{x^2} - \sqrt[3]{-x^3} = ?$

A) $1-x$ B) $1+x$ C) $-1+x$ D) $-1-x$ E) 0

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50. $\dfrac{2}{\sqrt{3}-\sqrt{2}}+\dfrac{1}{3+\sqrt{8}}-\dfrac{2}{2-\sqrt{3}}=?$

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

51. $x, y \in \mathbb{Z}$

$x\sqrt{5}+y\sqrt{5}=3x-2y+20$

$\Rightarrow x=?$

A) 20 B) 10 C) 0 D) -4 E) -20

52. $a \neq b$

$\dfrac{a}{b}=\dfrac{bx+4}{ax+4}$

$\Rightarrow x=?$

A) $4ab$ B) $\dfrac{a-b}{4}$ C) $-\dfrac{4}{a+b}$ D) $\dfrac{4}{a+b}$ E) $\dfrac{4}{a-b}$

53. $\dfrac{a}{2}=\dfrac{b}{7}=\dfrac{c}{3}$

$2a-b+3c=24$

$\Rightarrow b=?$

A) 6 B) 28 C) 12 D) 24 E) 8

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54. $\frac{a}{b}=\frac{c}{d}=\frac{e}{f}=\frac{1}{2}$

$$\left.\begin{array}{l} 2a+3c-2e=7 \\ 2b-2f=5 \end{array}\right\} \Rightarrow d=?$$

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

55. $-(-a)^2\cdot(-a)^3\cdot(a)^{-8}\cdot(-a)^5=?$

A) $-a^2$ B) $-a$ C) $-a^{-2}$ D) a E) a^2

56. $\frac{64^x-16^x}{8^x+4^x}=4^x \quad \Rightarrow \quad x=?$

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

57. $f(x)=x^2-(2-\sqrt{2})x-\sqrt{8}$

$f(x_1)=f(x_2)=0$

$\Rightarrow x_1^3+x_2^3=?$

A) $2\sqrt{2}$ B) $2\sqrt{2}+1$ C) $\sqrt{2}+3$

D) $8-2\sqrt{2}$ E) $16-\sqrt{2}$

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58. $\log_2 3 \cdot \log_3 4 \cdot \log_4 5 \cdot \ldots \cdot \log_{63} 64 \; = \; ?$

A) 2 B) 4 C) 6 D) 8 E) 10

59. $\dfrac{\log 8 + 3}{\log 20} \; = \; ?$

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

60. $\lim\limits_{x \to 3} \dfrac{x^2 + ax - 6}{x^2 - 2x - 3} = m \;, \quad m \in \mathbb{R} \;\Rightarrow\; m = ?$

A) $\dfrac{5}{2}$ B) $\dfrac{2}{5}$ C) $\dfrac{5}{3}$ D) $\dfrac{5}{4}$ E) $\dfrac{3}{5}$

61. $\lim\limits_{x \to 0} \dfrac{\sqrt{x+2} - \sqrt{2}}{x} \; = \; ?$

A) $\dfrac{\sqrt{2}}{2}$ B) $\sqrt{2}$ C) $\dfrac{\sqrt{2}}{4}$ D) 0 E) $2\sqrt{2}$

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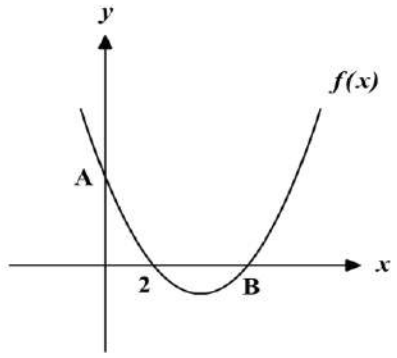
62.



$f(x) = x^2 - 7x + m$

$\Rightarrow |AB| = ?$

A) $10\sqrt{2}$ B) $5\sqrt{5}$ C) $2\sqrt{5}$

D) $\sqrt{10}$ E) 2

63. $6\,f\left(\frac{x}{7}\right) = f\left(\frac{7}{x}\right) + 3x + a$

$f(1) = 5 \Rightarrow a = ?$

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

64. $\left.\begin{array}{l} y = f(x) \\ 3xy + 2x - y + 7 = 0 \end{array}\right\} \Rightarrow f'(2) = ?$

A) 1 B) $\frac{23}{25}$ C) $-\frac{43}{25}$

D) $\frac{43}{25}$ E) $-\frac{23}{25}$

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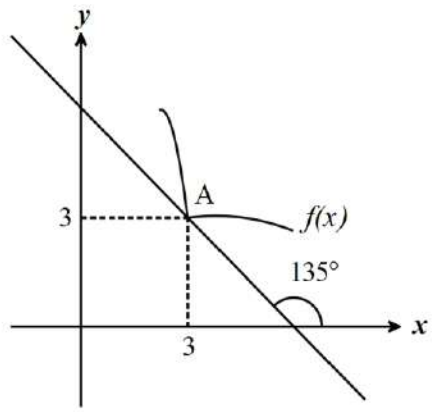
65.



$g(x) = \dfrac{x^3}{f(x+1)}$

$g'(2) = ?$

A) $\dfrac{12}{5}$ B) $\dfrac{23}{9}$ C) $\dfrac{17}{16}$ D) $\dfrac{44}{9}$ E) $\dfrac{43}{27}$

66. $\sum_{m=3}^{43}\left(\prod_{n=2}^{27} n\right) = A \cdot 5^x \Rightarrow \max(x) = ?$

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

67. $\int_0^{\pi} sin^2 x dx = ?$

A) 1 B) π C) $\dfrac{\pi}{4}$ D) $\dfrac{\pi}{3}$ E) $\dfrac{\pi}{2}$

68. $\int \dfrac{4}{x} d(x^3 - 1) = ?$

A) $2x^3 + c$ B) $12x^2 + c$ C) $6x^2 + c$ D) $\dfrac{x^2}{2} + c$ E) $6x + c$

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69. $i^2 = -1$

$z = x + yi$

$(2+3i).z = \bar{z} - 2 \;\Rightarrow\; z = ?$

A) $\frac{-1+i}{2}$ B) $\frac{-3+3i}{2}$ C) $1+i$

D) $\frac{5-2i}{2}$ E) $\frac{2-i}{2}$

70. $\frac{\arctan\left(\tan\frac{\pi}{3}\right)}{2} = ?$

A) $-\frac{2\pi}{3}$ B) $-\frac{\pi}{3}$ C) $\frac{\pi}{3}$

D) $\frac{\pi}{6}$ E) π

71. $13x = \pi \;\Rightarrow\; \frac{\cos 7x + \cos 3x}{2\cos 2x \cos 8x} = ?$

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

D) $-\frac{1}{3}$ E) -1

72. $x\begin{bmatrix}2\\1\end{bmatrix} - y\begin{bmatrix}-3\\4\end{bmatrix} = \begin{bmatrix}7\\-13\end{bmatrix}$

$\Rightarrow y - x = ?$

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

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