Test Name : Grade-6 (Maths Test)

Difficulty Level : Medium

Test Type : Paid

Total Questions : 32

Total Marks : 160.00

Duration : 60.00 mins

Q.1

If 48 men can do a piece of work in 96 days, then to finish the same work in 72 days, how many more men are needed?

A. 12

B. 16

C. 18

D. 24

Answer : B

Q.2

Sara answered a set of 12 questions and received 4 marks for each correct answer and -2 marks for each wrong answer. She answered five questions correctly and seven questions incorrectly. What is Sara's total score?

A. 6

B. 8

C. 12

D. 7

Answer : B

Q.3

What is the perimeter of a square if the area of the shaded part is 16 square units?

A. 8 units
B. 16 units
C. 32 units
D. 64 units

Answer : C,

Q.4
If x is a prime number and x+2 is a prime number, what is true for x(x+2)+1?
A. An odd integer
B. A prime number
C. A perfect square
D. Not a perfect square

Answer : C,

Q.5
Which of the following statements is false ?
A. Through three collinear points, we can draw three lines
B. Two intersecting lines in a plane determine a point
C. Lines belonging to the same plane are called coplanar lines
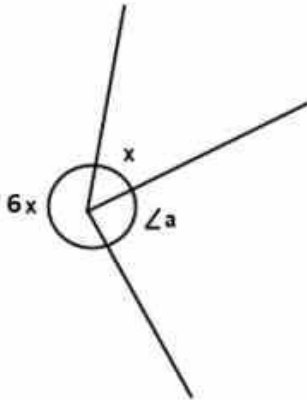D. A line is a part of a plane

Answer : A

Q.6
If a rectangular field is 135 m long and 78 m wide, and Aron jogged around it 4 times, how far did he jog?
A. 426 m
B. 852 m
C. 1278 m
D. 1704 m

Answer : D

Q.7

If ∠a=3x then, find the value of x.

A. 22 degree
B. 24 degree
C. 36 degree
D. 43 degree

Answer : C

Q.8

What is the ratio of non-selected children to the total number of children in a cricket coaching camp where 1200 children are trained, and 900 are selected for various matches?
A. 300 : 120
B. 4 : 1
C. 1 : 4
D. 120 : 300

Answer : C

Q.9

Which of the following statements is true if A is the son of C, C and Q are sisters, Z is the mother of Q, and P is the son of Z?
A. P and A are cousins
B. P is the maternal uncle of A
C. Q is the maternal grandfather of A
D. C and P are sisters

Answer : B

Q.10
Complete the given series: 17, 18, 20, ?, 27, 32, 38
A. 20
B. 21
C. 23
D. 25

Answer : C

Q.11
Select the correct option to replace the question mark in the below series:
LAV, MBW, NCX, ODY, ?
A. PEW
B. PEZ
C. PFX
D. PWS

Answer : B

Q.12
If Daniel ranks 7th from the top and 28th from the bottom in a class, how many students are there?
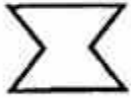A. 30
B. 32
C. 34
D. 38

Answer : C

Q.13
Which of the following mirror images is correct for the given word when the mirror is placed vertically to the left of the word? WHITE
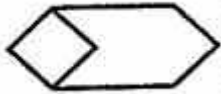A. ƎⱠIHW
B. ƎTIHM
C. ƎTIHW
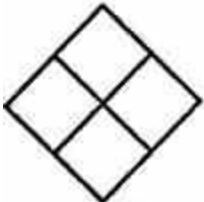D. ETIHW

Answer : C

Q.14

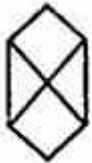Find the figure in which the above figure is embedded.
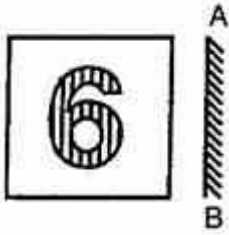

A.

B.

C.

D.

Answer : B

Q.15
If Ema and Ava were facing each other before sunset, and Ava's shadow was exactly to the right of Ema, which direction was Ema facing?
A. North
B. South
C. East
D. West

Answer : A

Q.16
Which is the correct mirror image for the given figure?

A.

B.

C.

D.

Answer : B

Q.17
What is the difference between the largest and smallest 5-digit numbers formed by the digits 6, 0, 9, and 5 (where 0 is repeated twice)?
A. 46,431
B. 49,250
C. 39,996
D. 39,600

Answer : A

Q.18
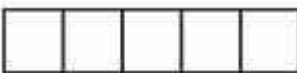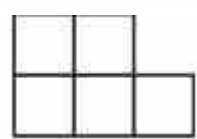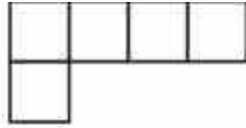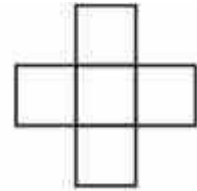How many 3's are there in the given series which are immediately preceded by 9 as well as immediately followed by 6?
9 6 3 5 4 9 3 3 6 9 3 6 3 9 9 3 3 6 9 3 6
A. 0
B. 1
C. 4
D. 2

Answer : D

Q.19
Which one of the following shapes, made of five same-unit squares, has the smallest perimeter?

A.

B.

C.

D.

Answer : B

Q.20
The given table shows the temperature of a city for 7 consecutive hours :

Hour	1	2	3	4	5	6	7
Temperature (°C)	-6	15	-2	23	12	0	-4

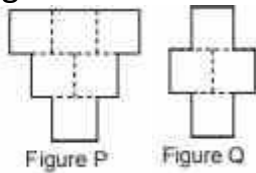Calculate the difference between the highest and the lowest temperature of the city over the 7-hour period.
A. 17°C
B. 29°C

C. 21°C

D. 25°C

Q.21

If Figure P is made up of six identical squares and two squares were removed to form Figure Q, and the perimeter of Figure P is 240 cm, what is the perimeter of Figure Q?

Figure P   Figure Q

A. 220 cm

B. 180 cm

C. 200 cm

D. 160 cm

Q.22

What is the missing number in the given pattern?

$$4 \times 4 - 3 \times 3 = 7$$

$$21 \times 21 - 20 \times 20 = 41$$

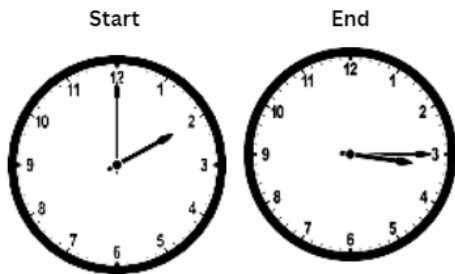$$43 \times 43 - 42 \times 42 = 85$$

$$105 \times 105 - 104 \times 104 = \underline{?}$$

A. 3402

B. 2194

C. 903

D. 209

Q.23
How many right angles did the minute hand of the clock travel in the diagram below, showing Ben's time doing his homework?

A. 10
B. 35
C. 12
D. 5

Answer : D

Q.24
What is the total number of marbles stored in a godown that contained 266 bags of marbles, if each bag had 49 marbles?
A. 13,034
B. 12,035
C. 15,034
D. 13,000

Answer : A

Q.25
The smallest number which when decreased by 7 is exactly divisible by 8, 14, 24, and 36, is:
A. 497
B. 504
C. 511
D. 490

Answer : C

Q.26
If 50% of a number (x) is equal to two-fifth of another number (y), what is the ratio of the first number (x) to the second number (y)?

A. 3 : 4
B. 4 : 5
C. 5 : 6
D. 5 : 4

Answer : B

Q.27
If 47<34,then

A. $\dfrac{4}{7} < \dfrac{4+3}{7+4} < \dfrac{3}{4}$

B. $\dfrac{4}{7} < \dfrac{4\times3}{7\times4} < \dfrac{3}{4}$

C. $\dfrac{4}{7} < \dfrac{4-3}{7-4} < \dfrac{3}{4}$

D. None of these

Answer : A
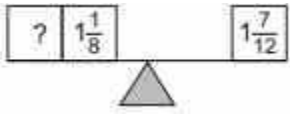
Q.28
Count the number of small cubes in the given figure.

A. 10
B. 7
C. 8
D. 9

Answer : B

Q.29
To balance the scale, find the missing fraction.

| ? | $1\frac{1}{8}$ | | $1\frac{7}{12}$ |

A. $\dfrac{11}{24}$

B. $\dfrac{10}{24}$

C. $\dfrac{5}{24}$

D. $\dfrac{1}{24}$

Answer : A

Q.30
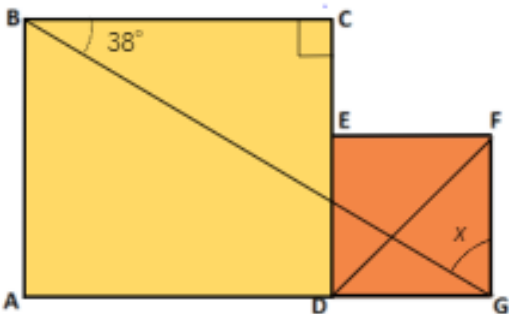Evaluate : $-1 + 55 - (-29) + (-1) - (-82) + (-3)$
A. 161
B. -161
C. 158
D. -158

Answer : A

Q.31
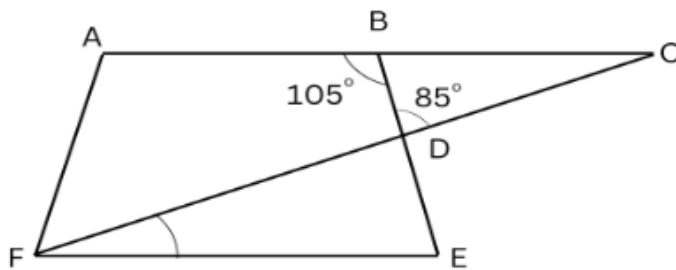The figure, not drawn to scale, is made up of 2 squares ABCD and EFGD. Find ∠x

A. 36 degrees
B. 52 degrees
C. 83 degrees
D. 97 degrees

Answer : B

Q.32
In the figures below, ABEF is a trapezium and BCD is a triangle.ABC is a straight line and∠FDE=∠CDB. Find ∠DFE

A. 6 degree
B. 20 degree
C. 15 degree
D. 10 degree

Answer : B