OLYMPIAD WORLDWIDE

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Test Name : Grade-7 (Maths Test)
Difficulty Level : Medium
Test Type : Paid

Total Questions : 32
Total Marks : 160.00
Duration : 60.00 mins

Q.1
What is the least number which when divided by 6, 9, 11 and 12 leaves the remainder 5 in each case?
A. 401
B. 391
C. 396
D. 408

**Answer :** A,

Q.2
The value of $\frac{100^{97} + 100^{100}}{100^{97}} - 1$ is equal to:
A. 1,003,005
B. 1,060,000
C. 1,000,000
D. 10,000,000

**Answer :** C,

Q.3
Which one of the following numbers will replace the question mark (?) in the number series given below? 102, 96, 89, 81, 72, ? , 51
A. 63
B. 61

C. 60
D. 62

**Answer :** D,

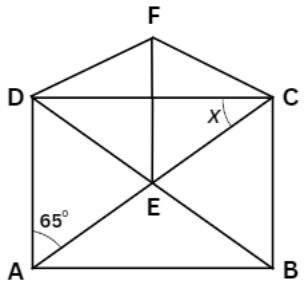
Q.4
What is the largest possible area of a rectangle with an integer side and perimeter of 22 units?
A. 28 sq. units
B. 30 sq. units
C. 32 sq. units
D. 24 sq. units

**Answer :** B,

Q.5
An elevator can carry either 20 children or 12 adults. What is the maximum number of children that could travel in the lift with 9 adults ?
A. 4
B. 6
C. 8
D. 5

**Answer :** D,

Q.6
In the figure,ABCD is a rectangle, FEC is an equilateral triangle. Find x.




A. 25°
B. 30°

C. $20^o$
D. $50^o$

**Answer :** A,

Q.7
If Kevin needs to deliver a paper to each house with an odd house number, and the first house is number 15 and the last is number 53, how many houses will he deliver newspapers to?
A. 17
B. 19
C. 20
D. 18

**Answer :** C,

Q.8
A school organizes a historical trip. There are 4,620 students in a school. Out of which only 24% girls and 20% boys go on the trip. If the number of girls in the school is 2,075, then find the number of boys and girls respectively who go on the trip.
A. 402,436
B. 509,498
C. 506,408
D. 605,421

**Answer :** B,

Q.9
John is the son of Mark. Tom is the brother of John and Sarah is the wife of Mark. John is married to Emily, then how is Tom related to Emily?
A. Maternal uncle
B. Uncle
C. Father
D. Brother-in-law

**Answer :** D,

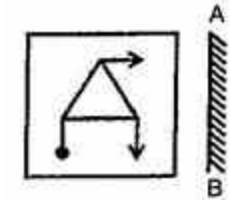
Q.10
Select the correct option to replace the question mark in the below series: JAF, JEF, JIF, JOF, ?
A. PIG
B. PET
C. JUF
D. POT

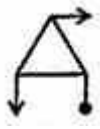
**Answer :** C,

Q.11
Luke put his timepiece on the table in such a way that at 6 P.M. hour hand points to North. In which direction the minute hand will point at 9.15 P.M. ?
A. South-East
B. South
C. North
D. West

**Answer :** D,

Q.12
Which is the correct mirror image for the given figure?




A. 

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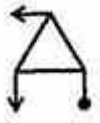
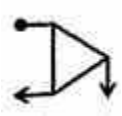
C. 

D. 

**Answer :** C,

Q.13

In a certain code language, BEAT is written as YVZG, then what will be the code of MILD?

A. NROW

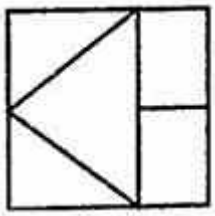
B. NOWR

C. ONWR

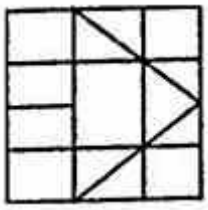
D. ONRW

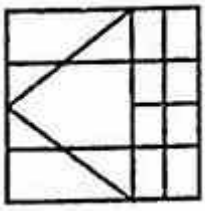
**Answer :** A,

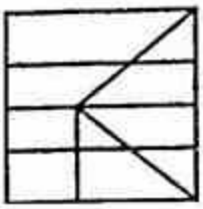
Q.14

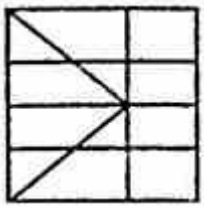


Find the figure in which the above figure is embedded.

A. 

B. 

C. 

D. 

**Answer :** B,

Q.15

Complete the given series: 2, 2, 4, 8, ……, 22, 32, 44

A. 20

B. 24

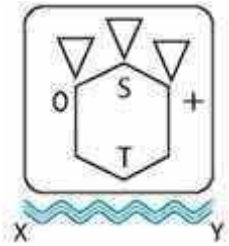
C. 14

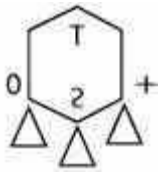
D. 16

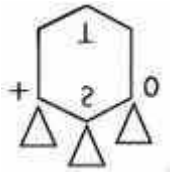
**Answer :** C,

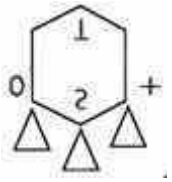
Q.16

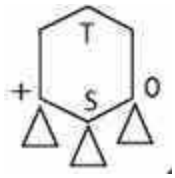
Which is the correct water image for the given figure?




A. 

B. 

C. 

D. 

**Answer :** C,

Q.17

The product of the given 11 fractions is:

$$\left(1-\frac{1}{3}\right)\left(1-\frac{1}{4}\right)\left(1-\frac{1}{5}\right)\left(1-\frac{1}{6}\right)\ldots\ldots\ldots\left(1-\frac{1}{13}\right)$$

A. $\frac{1}{13}$

B. $\frac{16}{13}$

C. $\frac{2}{13}$

D. $\frac{12}{13}$

**Answer :** C,

Q.18

A student has to secure 33% marks to pass. He got 349 marks and failed by 47 marks. Find the maximum marks to be scored.

A. 1000

B. 1200

C. 1500
D. 800

**Answer :** B,

Q.19
If A = {1, 5, 6, 7, 8, 10} and B = {2, 4, 6, 8}, then which one of the following statements is incorrect?
A. A∪B = {1,2,4,5,6,7,8,10}
B. A∩B ={6,8}
C. A – B = {1, 5, 7, 10}
D. B – A = {1, 2, 4, 10}

**Answer :** D,

Q.20
12is subtracted from a number and the difference is multiplied by 4. If 25 is added to the product and the sum is divided by 3, the result is equal to 10. Find the number.
A. 35
B. 74
C. 67
D. 16

**Answer :** B,

Q.21
What value of 'x' makes the average of the first three numbers in the list given equal to the average of the last four ?

**15, 5, $x$, 7, 9, 17**

A. 19
B. 21
C. 24
D. 27

**Answer :** A,

Q.22
If 120% of Natasha's weight equals 75% of Revan's weight, what is the ratio of Natasha's weight to Revan's weight?
A. 5 : 8
B. 8 : 5
C. 7 : 8
D. 5 : 9

**Answer :** A,

Q.23
What is the result of adding the three expressions: (a + 3b - 4c), (4a - b + 9c), and (-2b + 3c - a), and then subtracting (2a - 3b + 4c) from the sum?
A. 3a + 2b + 4c
B. 2a - 2b + 4c
C. 3a - 4b - 2c
D. 2a + 3b + 4c

**Answer :** D,

Q.24
Emma and Ava are collecting some marbles for their project. Emma collected 15y red marbles and 6x blue marbles, whereas Ava collected 5y red marbles and 8x blue marbles. After some time, Emma loses 3y marbles, and Ava collects 8y more marbles. Which of the following algebraic expressions represents the total number of marbles they both have now?
A. 25x+14y
B. 14x-23y
C. 14x + 2y + 3
D. 14x-2y+23

**Answer :** A,

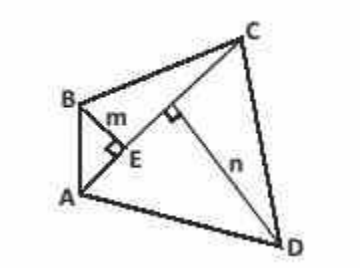
Q.25
If x2+ 1x=6  x-1x then what is the value of x-1xis ?
A. 4
B. 1
C. 2

D. 3

**Answer :** C,

Q.26

ABCD is a quadrilateral and m and n are perpendiculars drawn onto AC from B and D respectively. Find the area of the quadrilateral ABCD.




A. $\left(\frac{1}{2}AC \times m\right) + (n + CF)$

B. $\frac{1}{2}AC(m+n)$

C. $\frac{1}{2}(m \times n)\,AC$

D. None of these

**Answer :** B,

Q.27

If $64^a = 1256b$then select the answer that is incorrect for the expression 3a +4b+ 1=_____

A. $(64^a)^*$

B. 0

C. $64^a \times 256^b$

D. $(64^a \times 256^b)^*$

**Answer :** B,

Q.28

A mine elevator is lowering at a speed of 8 meters per minute. If the descent begins from a height of 12 meters above the ground level, how much time will it take for the elevator to reach a depth of -468 meters?

A. 50mins

B. 60mins

C. 30mins

D. 20mins

**Answer :** B,

Q.29

If x7-y8 and 8x-7y are the two different expressions then

A. $\left(\frac{x}{7}-\frac{y}{8}\right)+(8x-7y)=\frac{57x}{7}-\frac{57y}{8}$

B. $(8x-7y)-\left(\frac{x}{7}-\frac{y}{8}\right)=\frac{55x}{7}-\frac{57y}{8}$

C. $\frac{(8x-7y)}{\left(\frac{x}{7}-\frac{y}{8}\right)}=56$

D. All of the above

**Answer :** D,

Q.30

State True or false. (i) In a right-angled triangle ABC,m∠B = 65° ,m∠C = 25° , ,then AB = $BC^2$ + $CA^2$, (ii) The length of the third side of a triangle cannot be smaller than the difference between the lengths of the other two sides. (iii) A triangle can have only one median. (i) (ii) (iii)

A. F F T

B. F T F

C. T T T

D. T F F

**Answer :** B,

Q.31

In a pond, there are several lotus flowers, and some bees are flying around them. If one bee lands on each flower, there will be a bee left alone. However, if two bees land on each flower, there is one flower left unoccupied. What is the total number of flowers in the pond, and how many bees are hovering around them respectively?

A. 5, 4

B. 3, 4

C. *4, 2*

D. 2, 4

**Answer :** B,

Q.32

Which of the following options is correct, according to the given observations?

115,120,146,148,150,145,132,136,132

A. The median of the given observations is less than the mean.

B. The mode of the given observations is 136.

C. The median of the given observations is more than the mode.

D. None of these

**Answer :** C,