

**Q1:**  $25 - 4 \times 6 = ?$

- A) 1            B) 4            C) 126            D) 0

**Q2:**  $0.2 + 0.22 + 0.022 = ?$

- A) 0.222        B) 0.323        C) 0.442        D) 0.44

**Q3:** The smallest whole number which is divisible by 8 and 12 is:

- A) 4            B) 16            C) 24            D) 48

**Q4:**  $\frac{5}{8} \div \frac{3}{4} = ?$

- A)  $\frac{15}{32}$         B)  $\frac{5}{6}$             C)  $\frac{3}{4}$             D)  $\frac{5}{12}$

**Q5:** What is the sum of all possible remainders of a division if the divisor is 12?

- A) 66            B) 64            C) 62            D) 60

**Q6:**  $\frac{1}{2 + \frac{1}{2 + \frac{1}{2}}} = ?$

- A)  $\frac{5}{6}$             B)  $\frac{6}{5}$             C)  $\frac{12}{5}$             D)  $\frac{5}{12}$

**Q7:** Which of the following could be be the area of a square?

- A) 12            B) 24            C) 32            D) 49

**Q8:** If  $x = \frac{144}{9}$ , what is the value of  $36x + 21$ ?

- A) 592            B) 595            C) 597            D) 602

**Q9:**  $A = \frac{1}{2} + \frac{1}{3} + \frac{1}{4}$  and  $B = \frac{1}{4} + \frac{1}{6} + \frac{1}{8}$ , then what is

the value of  $\frac{A}{B}$ ?

- A)  $\frac{13}{2}$             B) 2            C) 13            D) 26

**Q10:**  $2^8$  apples are shared among 8 children equally. How many apples did each child get?

- A) 2            B)  $2^2$             C)  $2^4$             D)  $2^5$

**Q11:** If  $6 - y = 2y - 6$ , what is the value of  $y$ ?

- A) 0                      B) 2                      C) 4                      D) 6

**Q12:** Ashan can paint a table in 40 minutes and he started at 07: 20 a.m. How many tables can Ahsan paint till 02:40 p.m.?

- A) 9                      B) 10                      C) 11                      D) 12

**Q13:** What is the greatest four-digit number if the product of its digits is 210?

- A) 7532                      B) 7651                      C) 7652                      D) 7653

**Q14:** The distance between any two points is equal vertically and horizontally. How many isosceles triangles can be drawn by joining these points?



- A) 22                      B) 23                      C) 24                      D) 25

**Q15:** Faheem is 41 years old and he has celebrated all his birthdays. In how many birthday parties was Faheem's age a prime number?

- A) 9                      B) 11                      C) 13                      D) 15

**Q16:** What is the value of  $k$  if...

$$\left(1 + \frac{1}{2}\right) \times \left(1 + \frac{1}{3}\right) \times \left(1 + \frac{1}{4}\right) \times \left(1 + \frac{1}{5}\right) \times \left(1 + \frac{k}{6}\right) = 4?$$

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

**Q17:** The sum of the ages of Tahseen, Hassam and Razziq is 31 years. What will be the sum of their ages after 13 years ?

- A) 32                      B) 44                      C) 48                      D) 70

**Q18:** Mohsin was fishing. If he had caught three times as many as he actually did, he would have 12 more.

How many fish did he catch?

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

**Q19:** What was the age of Ahmad 4 years ago if his age will be 27 after 8 years?

- A) 15      B) 19      C) 23      D) 35

**Q20:** What is the number indicated by question mark in the given pattern?

$$684156 \rightarrow 5760$$

$$718412 \rightarrow 448$$

$$579311 \rightarrow 945$$

$$875315 \rightarrow ?$$

- A) 4200      B) 5500      C) 724      D) 645

**Q21:** A science class has a ratio of girls to boys of 4 to 3. If the class has a total of 35 students, how many more girls are there than boys?

- A) 20      B) 15      C) 7      D) 5

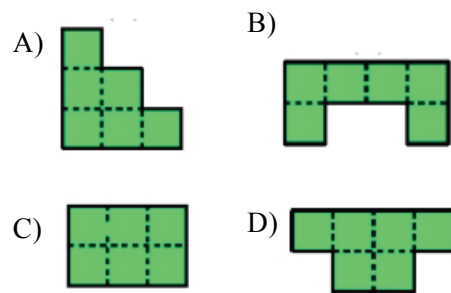
**Q22:** If 35% of  $p$  is equal to 700, what is 40% of  $p$ ?

- A) 98      B) 245      C) 280      D) 800

**Q23:** What is the remainder when the sum of three consecutive even integers is divided by 6?

- A) 0      B) 1      C) 2      D) 3

**Q24:** The areas of the four figures below are equal. Which one has the greatest perimeter?



**Q25:** The number 3 can be expressed as the sum of one or more positive integers in 3 different ways (3 or 2+1 or 1+1+1).

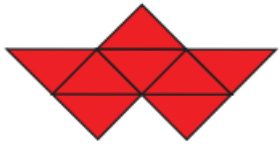
In how many ways, 5 can be expressed as the sum of one or more positive integers?

- A) 5      B) 6      C) 7      D) 8

**Q26:** Which of the following is the most repeated digit when the numbers from 1 to 100 are written?

- A) 0            B) 1            C) 3            D) 9

**Q27:** How many triangles are there in the figure below?



- A) 9            B) 11            C) 12            D) 15

**Q28:** A researcher found that the number of bacteria in a certain sample doubles every hour. If there were 6 bacterias in the sample at the start of the experiment, how many bacteria will be there after 4 hours?

- A) 24            B) 48            C) 96            D) 192

**Q29:** There were 320 students at school assembly attended only by juniors and seniors. If there were 60 more juniors than seniors and 30 more female juniors than male juniors, then find the number of male juniors?

- A) 40            B) 30            C) 50            D) 80

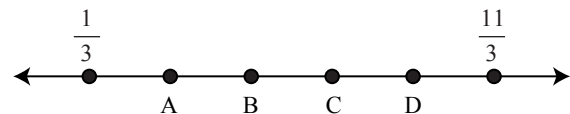
**Q30:** Which of the following will be in tens' place in the product of  $1 \times 2 \times 3 \dots 48 \times 50$ ? (Example: 85)   
ones' place  
tens' place

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

**Q31:** Sum of six consecutive natural numbers is 87. What is the average of these numbers?

- A) 14            B) 14.5            C) 15            D) 15.5

**Q32:** Following line is divided in to equal parts.

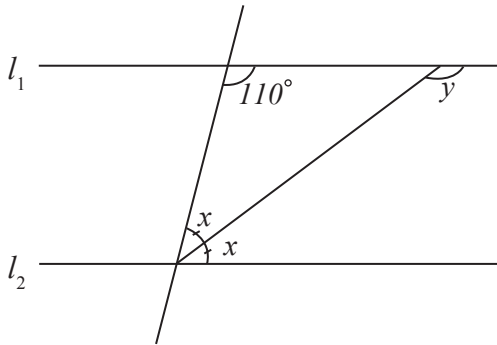


Which fraction represents the point C?

- A) 1            B)  $\frac{5}{3}$             C)  $\frac{7}{3}$             D) 3

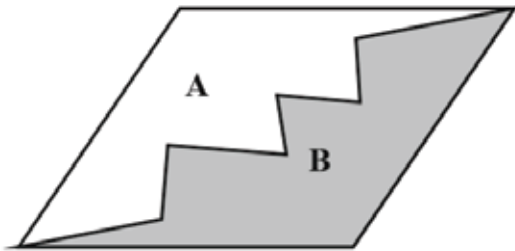


**Q39:** If  $l_1$  is parallel to  $l_2$  in figure below, what is the value of  $y$ ?



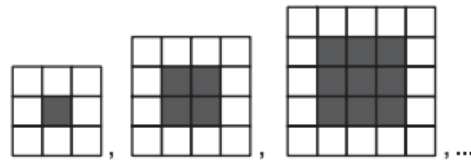
- A) 130      B) 135      C) 140      D) 145

**Q40:** A parallelogram is divided in two parts and named as A and B as it is shown in the figure. Which of the following statement is exactly true?



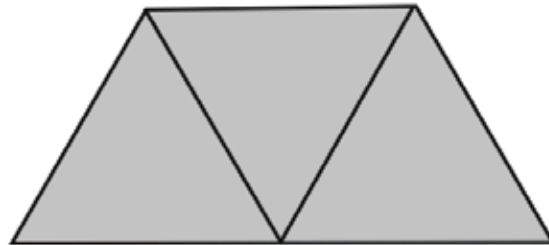
- A) The perimeter of A is more than the perimeter of B.  
 B) The perimeter of A is less than the perimeter of B.  
 C) The area of A is more than the area of B.  
 D) The perimeter of A and B are equal.

**Q41:** How many squares will be unshaded in the tenth step of the figure below?



- A) 38      B) 40      C) 42      D) 44

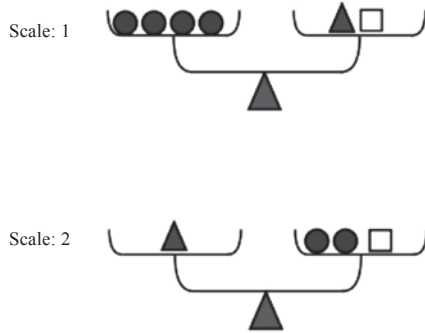
**Q42:** The following trapezium is formed by using three equilateral triangles whose sides are integers.



Which of the following can be the perimeter of the trapezium?

- A) 24 units      B) 35 units  
 C) 36 units      D) 48 units

**Q43:** According to the scales below, how many square(s) is/are needed to balance one circle? (Scales are balanced.)



- A) 1      B) 2      C) 3      D) 4

**Q44:** What is the middle term of nine consecutive numbers whose sum is 369?

- A) 35      B) 38      C) 40      D) 41

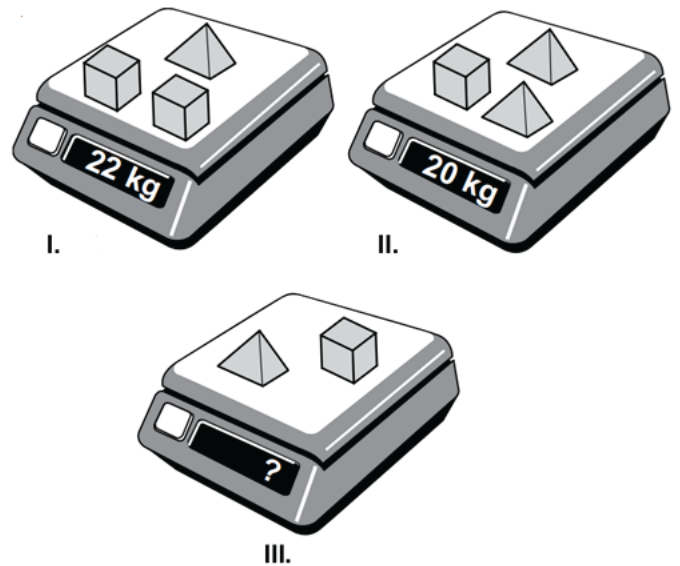
**Q45:** How many positive divisors of 720 are divisible by 8 but not by 9?

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

**Q46:** If half of number B is a perfect square number then find B.

- A) 288      B) 144      B) 76      D) 100

**Q47:** In the first and the second figure below, some pyramids and cubes are measured as 22 kg and 20 kg respectively. What is the weight of a cube and a pyramid in the third figure?



- A) 12      B) 14      C) 16      D) 18

**Q48:** The number 352a is divisible by 5. What is/are the possible value(s) of a?

- A) 0 or 5      B) 5      C) 2 or 5      D) 2

**Q49:** Latifa is subscribed to four publications that cost \$12.90, \$ 16.00, \$ 18.00 and \$ 21.90 per year respectively. If she made an initial payment of half of the total yearly subscription cost and paid the rest in four equal monthly payments, how much will she pay each remaining month?

- A) \$8.60      B) \$9.20      C) \$9.45      D) \$17.20

**Q50:** Twenty bottles contain a total of 8 liters of apple juice. If each bottle contains the same amount of apple juice, how many liters of juice are in each bottle?

- A) 2.7      B) 2.5      C) 0.9      D) 0.4