

Q1: Evaluate $28 - 13 \times 2 - 9 \div (-3)$

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

Q2: Which of the following is equal to $\frac{8}{14}$?

- A) $\frac{2}{52}$ B) $\frac{32}{48}$ C) $\frac{40}{56}$ D) $\frac{20}{35}$

Q3: What is the maximum number of Mondays in 57 consecutive days?

- A) 7 B) 8 C) 9 D) 10

Q4: $81 - 3 \times 21 + 41 = ?$

- A) 53 B) 59 C) 63 D) 71

Q5: Find x if $\frac{x-2}{4} = \frac{1}{2}$

- A) 1 B) 2 C) 3 D) 4

Q6: Which of the following fraction shouldn't be in $\frac{7}{3} < \frac{9}{2} < \frac{12}{4} < \frac{7}{2}$ so the order will be correct?

- A) $\frac{7}{3}$ B) $\frac{9}{2}$ C) $\frac{12}{4}$ D) $\frac{7}{2}$

Q7: Find the value of $6^1 + 5^2 + 4^3 + 3^4 + 2^5 + 1^6$

- A) 209 B) 193 C) 155 D) 51

Q8: If $x = -\frac{1}{2}$, then evaluate $\frac{x^2 + x + 1}{x + 1}$

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

Q9: a and b are integers such that $-5 < a < -3$ and $a \times b = 8$

What is $a - b$?

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

Q10: What is the number that is $\frac{1}{4}$ of $\frac{1}{2}$ of $\frac{1}{5}$ of 200?

- A) 5 B) 10 C) 25 D) 50

Q11: $\left(1 - \frac{1}{2}\right) \times \left(1 - \frac{1}{3}\right) \times \left(1 - \frac{1}{4}\right) \dots \left(1 - \frac{1}{30}\right) = ?$

- A) 1 B) $\frac{1}{29}$ C) $\frac{1}{30}$ D) 30

Q12: A man can travel 300 km on 12 liters of petrol. How many liters of petrol are needed to drive 750 km?

- A) 24 B) 30 C) 36 D) 48

Q13: Evaluate $\frac{1}{0.2} + \frac{1}{0.3} + \frac{1}{0.4} + \frac{1}{0.5}$

- A) $\frac{77}{6}$ B) $\frac{33}{7}$ C) $\frac{74}{7}$ D) $\frac{75}{11}$

Q14: $\frac{5}{1 + \frac{1}{4}} - \frac{\left(1 - \frac{1}{4}\right)}{3} = ?$

- A) $\frac{4}{5}$ B) $\frac{9}{2}$ C) $\frac{5}{4}$ D) $\frac{15}{4}$

Q15: Which of the following is not equal to 16?

- A) 4^2 B) 2^4 C) $32 - 4^2$ D) $4 + \frac{16}{4}$

Q16: Evaluate $\frac{1^2 + 2^2 + 3^2 + 4^2}{(1 + 2 + 3 + 4)^2}$

- A) $\frac{3}{10}$ B) $\frac{3}{5}$ C) $\frac{7}{10}$ D) $\frac{8}{5}$

Q17: Which of the following is a positive number?

- A) $8 \times (-13) \times 0$ B) $9 \times 13 \times (-13)$
C) $(-7) \times 17 \times (-7)$ D) $(-8) \times (-8) \times (-8)$

Q18: Find the remainder when 812245 is divided by 11

- A) 7 B) 1 C) 9 D) 5

Q19: If $a = \frac{2}{0.03}$, $b = \frac{4}{0.05}$, $c = \frac{6}{0.07}$

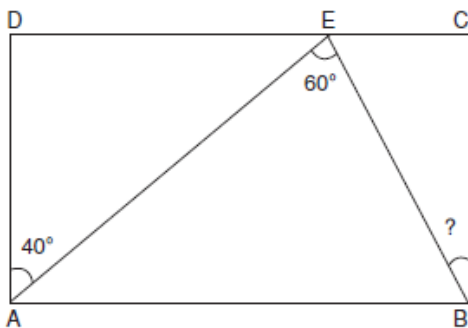
Which of the following is correct?

- A) $c < a < b$ B) $c < b < a$
C) $a < b < c$ D) $a < c < b$

Q20: Find the greatest number that will divide 109, 137 and 165 so as to leave the same remainder in each case.

- A) 4 B) 7 C) 9 D) 13

Q21: Find the unknown angle in the rectangle.



- A) 10 B) 20 C) 30 D) 40

Q22: If $a = 0.3$ and $b = 0.6$

Evaluate $\frac{a}{b} + \frac{b}{a}$

- A) 5 B) 3 C) $\frac{4}{3}$ D) $\frac{5}{2}$

Q23: A number when divided by 6 leaves a remainder 3. What will be the remainder when the square of the number is divided by 6?

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

Q24: These numbers are arranged according to a certain rule. Find the number indicated by question mark.

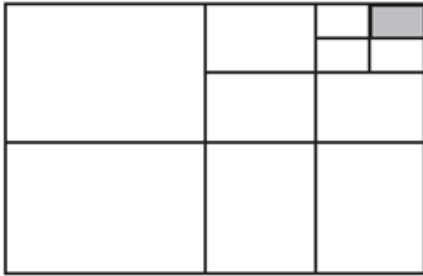
27	38	?
54	29	37

- A) 46 B) 38 C) 75 D) 93

Q25: Simplify $\frac{0.5}{0.6 + \frac{1}{0.5 + \frac{1}{0.5}}}$

- A) $\frac{2}{5}$ B) $\frac{1}{2}$ C) $\frac{3}{5}$ D) 1

Q26: Which of the following is the fraction of the shaded region in the figure?



- A) $\frac{1}{16}$ B) $\frac{1}{32}$ C) $\frac{1}{48}$ D) $\frac{1}{64}$

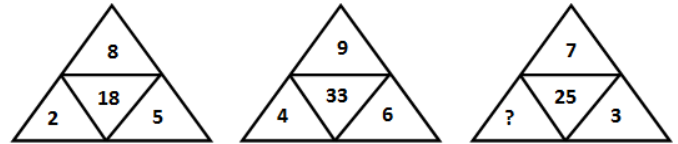
Q27: A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?

- A) 6.8 km/hr. B) 7.0 km/hr.
C) 7.2 km/hr. D) 7.4 km/hr.

Q28: Which of the following is an odd number if m is odd and n is an even number?

- A) $m^2 + mn$ B) $2m + 3n$
C) $4m^2 + n^2 + mn$ D) $2m^3 + n$

Q29: Find the number which is represented by '?' in the number pattern?



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

Q30: On a bus, the number of women is five less than the number of men. Twelve women and eight men get off the bus. There are 21 passengers left on the bus.

How many women were there on the bus at the beginning?

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

Q31: The LCM of 16 and 24 is x and the HCF of 18 and 48 is y

What is the value of $x + y$?

- A) 78 B) 54 C) 60 D) 66

Q32: What is the missing number in the sequence shown below?

1, 8, 27, ?, 125, 216

- A) 36 B) 45 C) 64 D) 99

Q33: According the rule used below

$$1 + 2 + 3 = \frac{3 \times 4}{2} = 6$$

$$1 + 2 + 3 + 4 + 5 = \frac{5 \times 6}{2} = 15$$

, find the sum of the natural numbers up to 15

- A) 105 B) 135 C) 120 D) 145

Q34: There are 300 chairs in conference hall. If 36 % of the chairs are given to the female and 24 % of chairs are given to the males, then how many chairs left for the children?

- A) 80 B) 120 C) 160 D) 200

Q35: What is the number of whole numbers that lie between 4^2 and 4^3 ?

- A) 46 B) 47 C) 48 D) 49

Q36: A library has an average of 510 visitors on Sundays and 240 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is:

- A) 218 B) 244 C) 285 D) 290

Q37: $1 \times \frac{1}{2} + 1, 2 \times \frac{1}{2} + 1, 3 \times \frac{1}{2} + 1, 4 \times \frac{1}{2} + 1, \dots$

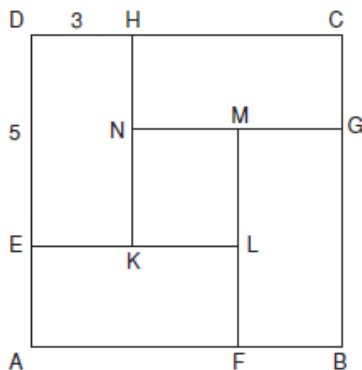
The Pattern above is formed according to a rule. Find the twentieth term in the number pattern.

- A) 11 B) 17 C) 19 D) 21

Q38: In a class of 40 students, 70 % of them are boys. What will be the percentage of girls in the same classroom after 8 boys leave the school?

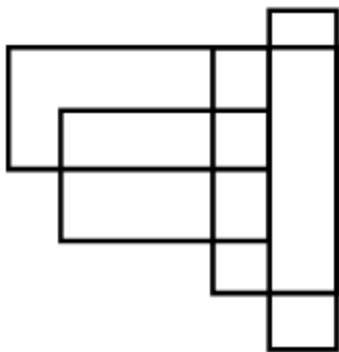
- A) 35.5% B) 36% C) 37% D) 37.5%

Q39: The figure below is made by four congruent rectangles and 1 square. Find the sum of perimeter of all quadrilaterals.



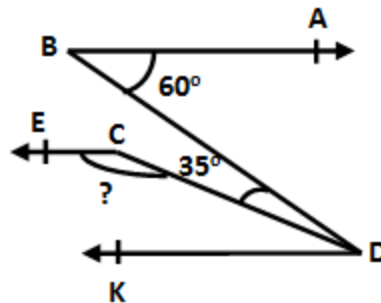
- A) 72 B) 76 C) 80 D) 84

Q40: How many four-sided figures appear in the diagram below?



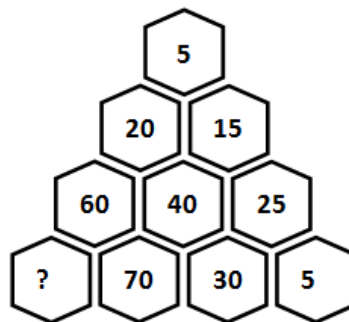
- A) 23 B) 24 C) 25 D) 26

Q41: Find the unknown angle in the figure if $BA \parallel EC \parallel KD$.



- A) 145° B) 150° C) 155° D) 160°

Q42: The numbers arranged according to a certain rule. Find the number indicated by question mark.



- A) 130 B) 135 C) 140 D) 125

Q43: A train leaves Lahore station and travels at 50 km/h. Two hours later, another train leaves from Lahore station on the track beside or parallel to the first train but it travels at 100 km/h. How far away from Lahore station will the faster train pass the other train?

- A) 100 km B) 150 km
C) 200 km D) 250 km

Q44: On a farm there are 20 rabbits, 10 geese and 25 chickens. There are no other animals. The price of two chickens equals the price of a rabbit and the price of three chickens equals the price of a goose. If a rabbit costs Rs. 12, what is the total value of all the animals on the farm?

- A) Rs. 510 B) Rs. 540
C) Rs. 560 D) Rs. 570

Q45: Which one of the following is the smallest when $x = 6$?

- A) $x^2 + 1$ B) $3x + 6$
C) $5x$ D) $2(x + 14)$

Q46: Find the difference between the largest and the smallest four digit number formed with the digits: 5, 3, 0, 1

- A) 4225 B) 4720 C) 3750 D) 4275

Q47: What is the value of the sum of the smallest and the greatest positive factors of 96?

- A) 49 B) 55 C) 109 D) 97

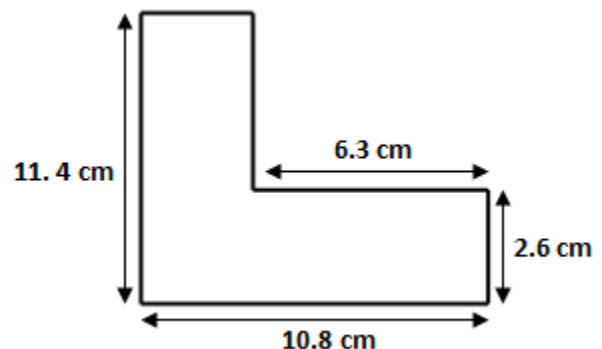
Q48: Safia is baking cookies for 24 children. She has baked 3 dozen cookies. If she wants each child to receive exactly 2 cookies and have no cookies left over, how many more cookies should she bake?

- A) 12 B) 16 C) 24 D) 32

Q49: Rashid needs 13 bottles of water from the store. He can only carry 3 at a time. What is the minimum number of trips Rashid needs to make to the store?

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

Q50: Find the perimeter of the following



- A) 44.4 cm B) 42.2 cm C) 48.8 cm D) 48 cm