

Q1: $\left(7 + \frac{1}{3}\right) \div \left(4 + \frac{1}{3}\right) = ?$

- A) $\frac{19}{3}$ B) $2\frac{11}{3}$ C) $1\frac{11}{3}$ D) $1\frac{9}{13}$

Q2: How many times 0.2 is equal to 0.02?

- A) 0.1 B) 10 C) 0.01 D) 0.5

Q3: Which of the following is not a factor of 72?

- A) 9 B) 16 C) 12 D) 18

Q4: $\frac{\frac{1}{2} + \frac{1}{2} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}}{6} = ?$

- A) $\frac{3}{3}$ B) $\frac{1}{3}$ C) $\frac{2}{3}$ D) $\frac{4}{3}$

Q5: $0.75 + \frac{1}{4} - \frac{1}{2} = ?$

- A) $\frac{1}{8}$ B) $\frac{1}{4}$ C) $\frac{1}{2}$ D) 1

Q6: $\frac{84 - [72 - 12 \times 5]}{13 - 16 \div 4} = ?$

- A) 5 B) 6 C) 7 D) 8

Q7: Which of the following is equal to $\frac{8}{40}$?

- A) $\frac{15}{65}$ B) $\frac{5}{35}$ C) $\frac{7}{35}$ D) $\frac{20}{35}$

Q8: "A" is a natural number. What is the value of "A" if LCM of (A,12) = 36 and HCF of (A,12) = 6?

- A) 18 B) 24 C) 6 D) 9

Q9: $\left(\frac{12}{7} \div \frac{8}{14}\right) + \frac{1}{2} \times \frac{3}{5} = ?$

- A) $\frac{61}{25}$ B) $\frac{7}{2}$ C) $\frac{33}{10}$ D) $\frac{9}{5}$

Q10: $7\frac{1}{3} - 3\frac{4}{5} + 2\frac{7}{15} = ?$

- A) 6 B) $5\frac{2}{3}$ C) $6\frac{2}{3}$ D) $5\frac{1}{3}$

Q11: Which two numbers have an LCM of 40?

- A) 4 & 5 B) 10 & 20
C) 20 & 15 D) 5 & 8

Q12: Which of the following is correct?

- A) $\frac{7}{9} < \frac{35}{43} < \frac{5}{6}$ B) $\frac{5}{6} < \frac{35}{43} < \frac{7}{9}$
C) $\frac{35}{43} < \frac{7}{9} < \frac{5}{6}$ D) $\frac{35}{43} < \frac{5}{6} < \frac{7}{9}$

Q13: A boy spends $\frac{2}{7}$ of his pocket money on books and $\frac{2}{3}$ on sweets. What fraction is left with him?

- A) $\frac{5}{21}$ B) $\frac{4}{21}$ C) $\frac{1}{21}$ D) $\frac{2}{21}$

Q14: If the price of 27 books is Rs. 5400, what is the price of 7 books?

- A) Rs. 1400 B) Rs. 700
C) Rs. 2100 D) Rs. 3500

Q15: What is the sum of first five odd prime numbers?

- A) 19 B) 21 C) 28 D) 39

Q16: Which of the following is the smallest ratio?

- A) $\frac{4}{6}$ B) $\frac{10}{12}$ C) $\frac{21}{24}$ D) $\frac{18}{24}$

Q17: 122333444455555.....

The numbers above are ordered according to a rule.

What is the 39th number in the order?

- A) 6 B) 7 C) 8 D) 9

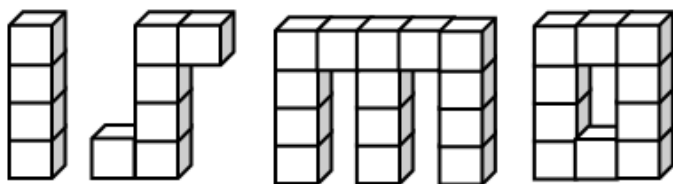
Q18: Area of a square is 121 cm². Find the perimeter of the square.

- A) 22 cm B) 28 cm C) 36 cm D) 44 cm

Q19: Which of the following is a prime number?

- A) $12 - (4 \times 2)$ B) $4 + 5 \times 5$
C) $21 - 3 \times 5$ D) $1 + 2 + 3 + 4$

Q20: How many cubes are used in the word ISMO?



- A) 34 B) 36 C) 38 D) 40

Q21: Which one of the following has the smallest remainder?

- A) $4002 \div 4$ B) $503 \div 5$
C) $607 \div 6$ D) $72 \div 7$

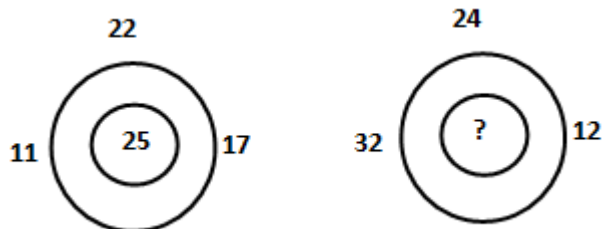
Q22: $4 \times \left(0.5 + \frac{1}{2} + 2\frac{1}{4} \right)$

- A) 13 B) 17 C) 15 D) 19

Q23: Which operation below is the same as $21 + 11 \times 13$?

- A) 32×13 B) $21 + 143$
C) 416 D) 21×24

Q24: Find the unknown number in the pattern.



- A) 32 B) 36 C) 38 D) 34

Q25: What is the sum of 20% of $\frac{1}{2}$ of 120 and 25% of $\frac{1}{3}$ of 180?

- A) 27 B) 24 C) 21 D) 29

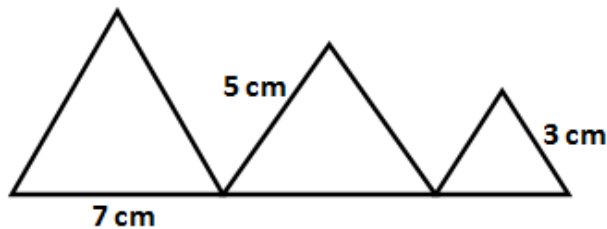
Q26: $6 \times 222 - 3 \times 111 = ?$

- A) 666 B) 999 C) 333 D) 1322

Q27: "A" is the smallest two digit whole number;
"B" is the sum of prime numbers up to 10.
What is A+B?

- A) 24 B) 25 C) 26 D) 27

Q28: The given figure is made by three different equilateral triangles. Find the perimeter of the whole figure.



- A) 30 cm B) 36 cm C) 40 cm D) 45 cm

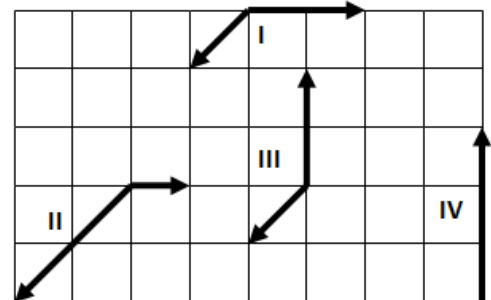
Q29: A mother has three children who are 6, 9 and 12 years old. The age of the mother is divisible by the age of each child. At least how old is the mother?

- A) 36 B) 38 C) 40 D) 42

Q30: Which of the following numbers is less than 8.001?

- A) 8.1 B) 8.011 C) 8.0 D) 8.101

Q31: Which two paths are equal to each other in size?



- A) I-II B) I-III C) II-IV D) III-IV

Q32: Abdullah's horse eats about 3 bales of hay every 5 days. About how many bales of hay Abdullah's horse will eat in 45 days?

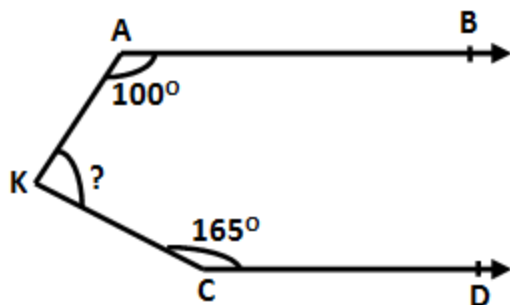
- A) 24 B) 27 C) 30 D) 33

Q33: There are three squares in the figure and the measurement of the side of each square is half the previous one. Find the perimeter of the figure if the measurement of one side of the smallest square is 8 cm.



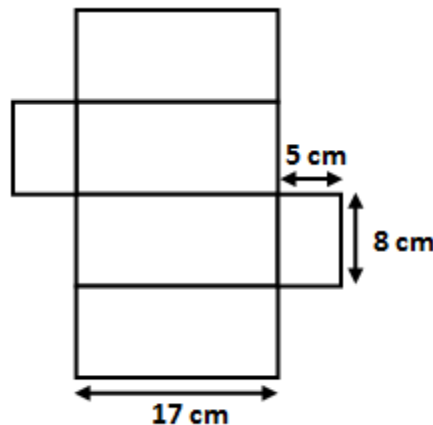
- A) 176 cm B) 224 cm
C) 256 cm D) 332 cm

Q34: What is the measure of the unknown angle in the figure if the lines AB and CD are parallel?



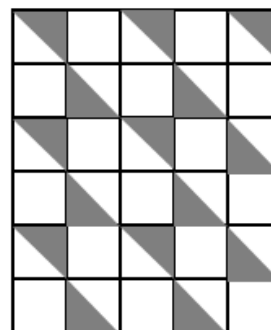
- A) 75° B) 85° C) 95° D) 65°

Q35: Find the perimeter of the given figure which is made by rectangular prism.



- A) 156 B) 144 C) 118 D) 98

Q36: Which of the following fractions represents the shaded region of the figure?



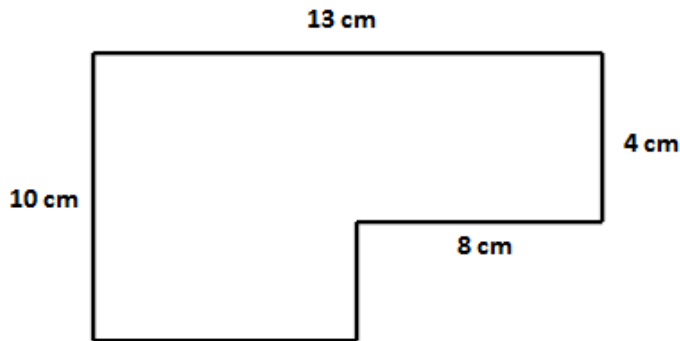
- A) $\frac{1}{4}$ B) $\frac{1}{3}$ C) $\frac{1}{2}$ D) $\frac{3}{14}$

Q37: What is the value of $a \times b$ according to the table?

x		4	6
		b	18
a		24	36

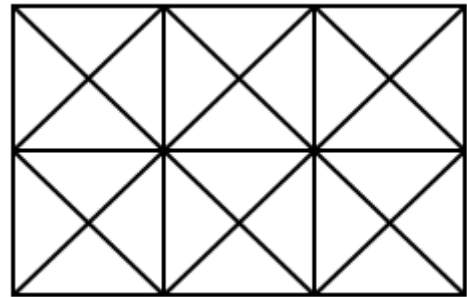
- A) 48 B) 66 C) 72 D) 84

Q38: Find the perimeter of the following figure



- A) 37 cm B) 41 cm C) 46 cm D) 49 cm

Q39: How many squares are there in the given figure?

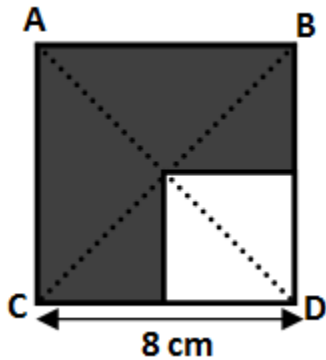


- A) 15 B) 16 C) 17 D) 18

Q40: Umer gives 12 more than $\frac{1}{4}$ of his books to Hassan and 10 more than $\frac{1}{3}$ of his books to Fatima. If finally there are 18 books with Umer, How many books does Umer have at the beginning?

- A) 56 B) 64 C) 72 D) 96

Q41: Find the area of shaded region.



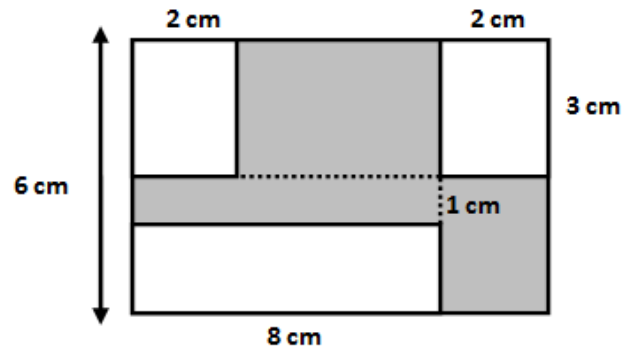
- A) $36cm^2$ B) $48cm^2$
C) $52cm^2$ D) $38cm^2$

Q42: $INTER \rightarrow 7$
 $SCHOOLS \rightarrow 9$
 $MATH \rightarrow 5$
 $OLYMPIAD \rightarrow ?$

There is a relationship between words and numbers. What should be come instead of question mark?

- A) 7 B) 9 C) 11 D) 13

Q43: Find the area of shaded region if the figure is made by rectangles.



- A) $24cm^2$ B) $28cm^2$ C) $32cm^2$ D) $36cm^2$

Q44: Each letter below stands for a distinct number.
The sequence shows the division method used to find the prime factorization of a number A.

A | 2
B | 2
C | 3
D | 5
1

What is A?

- A) 50 B) 60 C) 80 D) 90

Q45: Which of the following is the least common multiple that Ayesha can use to add three fractions with denominators of 2, 3, and 4?

- A) 8 B) 12 C) 24 D) 36

Q46: Haris is 12 years old. His small brother is 2 years younger than him and his sister is 5 years elder than him. What is the average of ages of Haris, his brother and his sister?

- A) 10 B) 11 C) 12 D) 13

Q47: Find the greatest number that will divide 43, 91 and 183 so as to leave the same remainder in each case.

- A) 5 B) 4 C) 11 D) 12

Q48: Each child of the Malik's family has at least three sisters and one brother. What could be the minimum number of children in this family?

- A) 5 B) 6 C) 7 D) 8

Q49: $10 + 110 + 1110 + 1010 = 10 \times \boxed{?}$

What is the number indicated by question mark?

- A) 280 B) 520 C) 224 D) 148

Q50: Seven less than three times a number is 32.

Find the number.

- A) 11 B) 12 C) 13 D) 14