

BHARATH COACHING CENTRE

7th cbse

Maths

Total: 40

Rational numbers

Time: 45 mins

SECTION-A

$$1 \times 6 = 6$$

1. Find the additive inverse of $-\frac{4}{9}$.
2. The reciprocal of a negative rational number is....
3. Rational numbers, which have both numerator and denominator as positive integers is called as.....
4. Find the value of x if $-\frac{5}{4} = \frac{x}{36}$
5. In the standard form of a rational number, the denominator can never be.....

SECTION-B

$$5 \times 2 = 10$$

1. Find a rational number which in standard form is equal to $\frac{4}{5}$ and the sum of its numerator and denominator is 27.
2. The product of two number is $\frac{3}{4}$ one of them is $\frac{6}{7}$. Find the other.
3. Multiple $\frac{8}{13}$ by the reciprocal of $-\frac{17}{26}$.
4. What number should be subtracted from $\frac{3}{7}$, to get $\frac{5}{4}$.
5. What is the percentage of the least number in the greatest number of $\frac{3}{5}, \frac{9}{5}, \frac{1}{5}, \frac{7}{5}$.

SECTION-C

$$4 \times 3 = 12$$

1. Rohit, Sam and peter walk around a circular park. They take $\frac{1}{3}h, \frac{2}{5}h, \frac{5}{12}h$ to complete one round. What is the total time taken by them to complete a round in minutes?
2. Which of the following values is obtained when the sum of $\frac{-2}{3}, \frac{14}{5}$ is subtracted from the sum of $\frac{-6}{5}, \frac{2}{7}$?
3. If we subtract $\frac{1}{2}$ from a number and multiply the result by $\frac{1}{2}$, we get $\frac{3}{8}$ what is the number?
4. From his home, Rahul walk $\frac{6}{7}km$ towards school and then returns $\frac{5}{6}km$ on the same way towards his home to reach a landmark. At what distance will he be now from his home?

SECTION-D

$$3 \times 4 = 12$$

1. In a super market, the cost of a table lamp is 870, on which $\frac{1}{5}th$ is off. The same table lamp is available at an electric shop for 920 with a discount of $\frac{1}{10}th$. From where should one buy the lamp? What is the difference in prices?
2. From a point P. Sam walks $1\frac{3}{5}km$ towards east. He then turns west and walks $2\frac{3}{5}km$ and then turns east and walks $\frac{17}{3}km$. How far is he from point P?

3. A box is to be filled with mangoes, each weighing $\frac{1}{10}kg$. The weight of the box should not exceed $\frac{3}{5}kg$. Find the maximum number of mangoes that can be put inside the box.