CHAPTER 2

RATIONAL NUMBERS

WORKSHEET

Question 1:

A rational number is defined as a number that can be expressed in the form p/q, where p and q are integers and

(a) q = 0 (b) q = 1

(c) q ≠ 1 (d) q ≠ 0

Question 2:

In the standard form of a rational number, the common factor of numerator and denominator is always

(a) 0 (b) 1 c) -2 (d)2

Question 3:

The standard form of $\frac{-48}{60}$ is

(a) $\frac{48}{60}$ (b) $\frac{-60}{48}$ (c) $\frac{-4}{5}$ (d) $\frac{-4}{-5}$

Question 4:

Which of the following is equivalent to 4/5 ?

(a) $\frac{5}{4}$ (b) $\frac{16}{25}$

(c) $\frac{16}{20}$ (d) $\frac{15}{25}$

Question 5:

How many rational numbers are there between two rational numbers?

(a) 1 (b) 0

(c) unlimited (d) 100

Question 6:

In the standard form of a rational number, the denominator is always a

(a) 0 (b) negative integer

(c) positive integer (d) 1

Fill in the Blanks

In questions 7 to 9 , fill in the blanks to make the statements true.

Question 7:

$\frac{-3}{8}$ is a rational number
integer.

Question 8:

On a number line, $\frac{3}{4}$ is to the_____of Zero(0).

Question 9:

$\frac{-1}{2}$ is _____ than $\frac{1}{5}$.

In questions 10 to 15, fill in the boxes with the correct symbol '<','<' or '='.

Question 10:

$\frac{7}{-8} \square \frac{8}{9}$

Question 11:

$\frac{3}{7} \square \frac{-5}{6}$

Question 12:

$\frac{5}{6} \square \frac{4}{8}$

Question 13:

$\frac{-9}{7} < \frac{4}{-7}$

Question 14:

$\frac{8}{8} \square \frac{2}{2}$

Question 15:

The reciprocal of_____ does not exist.

Question 16.By what number should we multiply $\frac{-3}{8}$, so that the product is $\frac{-9}{16}$?

Question 17.

The cost of $4\frac{1}{2}$meters of cloth is Rs85 $\frac{1}{2}$. find the cost of one meter cloth.

Question 18.

A stairway consists of 14 stairs, each $32\frac{5}{7}$cm high. What is the vertical height of the stairways?

Question 19.

Arrange the rational numbers $\frac{-7}{10}, \frac{5}{-8}, \frac{2}{-3}$ in the ascending order.

Question 20.

The sum of two rational numbers is-5.If one of them is $\frac{-52}{25}$, find the other .