Subject: - Mathematics
Topic: - Rational Numbers

PRACTICE PAPER (MCQ) CBSE-8th

1. A number of the form $\frac{p}{q}$ is said to be a rational number if: -   **Ans. (b)**

a) p, q are integers

b) p, q are integers and q$\neq$ 0.

c) p, q are integers and p$\neq$ 0

d) p, q are integers and p$\neq$ 0 and also q$\neq$ 0.

2. If the rational number $\frac{a}{b}$ is positive, then which of the following must be true: -

a) a > 0   b) b > 0   c) ab > 0   d) a + b > 0   **Ans. (c)**

3. $\frac{4}{7}$ of a pole is in the mud, when one - third of it is pulled out 250 cm of the poll is

still in the mud. Find the full length of the poll?   **Ans. (d)**

a) 1000 cm   b) 1100 cm   c) 950 cm   d) 1050 cm

4. If $\frac{m}{n} = \frac{4}{3}$ and $\frac{r}{t} = \frac{9}{14}$ the value of $\frac{3mr-nt}{4nt-7mr}$ is : -   **Ans. (b)**

a) -5$\frac{1}{2}$ b) $-\frac{11}{14}$ c) -1$\frac{1}{4}$ d) $\frac{11}{14}$

5. $1 + \cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{3}}}$ is equal to   **Ans. (b)**

a) $1\frac{1}{3}$ b) $1\frac{4}{7}$ c) 2   d) $\frac{1}{2}$

6. Rational numbers are not closed under: -   **Ans. (d)**

a) Addition   b) Subtraction   c) Multiplication   d) division

7. Reciprocal of a negative number is: -   **Ans. (b)**

a) Positive   b) negative   c) can't say   d) doesn't exist

8. $\frac{2}{3} \div 0$ is equals to: -   **Ans. (d)**

a) $\frac{2}{3}$ b) $\frac{3}{2}$ c) 0   d) not defined.

9. If $\frac{1}{x} - \frac{1}{y} = \frac{1}{z}$ then z = ?   **Ans. (d)**

a) y – x   b) x – y   c) $\frac{y-x}{xy}$ d) $\frac{xy}{y-x}$

10. Between any two rational numbers: -   **Ans. (d)**

a) There exist only one rational number.   b) There exist only two rational no's.

c) There exist many rational numbers.   d) There exist infinitely many rational no's.