

(49) If $\frac{p}{q}$ is a rational number then p cannot be equal to zero *False*

eg $\frac{0}{3}$

(50) If $\frac{r}{s}$ is a rational number then s cannot be equal to 0. *True*

(51) $\frac{5}{6}$ lies between $\frac{2}{3}$ and 1

True [\because 5 lies between 4 and 6]

$$\frac{\frac{2}{3}, \frac{1}{1}}{\frac{2 \times 2}{3 \times 2}, \frac{1 \times 6}{1 \times 6}}$$

$$\frac{4}{6}, \frac{6}{6}$$

(52) $\frac{5}{10}$ lies between $\frac{1}{2}$ and 1
False

$$\frac{\frac{1}{2}, \frac{1}{1}}{\frac{1 \times 5}{2 \times 5}, \frac{1 \times 10}{1 \times 10}}$$

$$= \frac{5}{10}, \frac{10}{10}$$

$$-3, -4$$

(53) $-\frac{7}{2}$ lies between -3 and -4

True [\because -7 lies between -6 and -8]

$$\frac{-\frac{3 \times 2}{1 \times 2}, -\frac{4 \times 2}{1 \times 2}}{= -\frac{6}{2}, -\frac{8}{2}}$$

(54) $\frac{9}{6}$ lies between 1 and 2

True [\because 9 lies between 6 and 12]

$$\frac{\frac{1 \times 6}{1 \times 6}, \frac{2 \times 6}{1 \times 6}}{\frac{6}{6}, \frac{12}{6}}$$