



### Exercise 1A

Question 5:

$$\text{Let } x = \frac{2}{5} \text{ and } y = \frac{3}{4}$$

$$\text{Then, } x < y \text{ because } \frac{2}{5} < \frac{3}{4}$$

$$\text{Or we can say that, } \frac{2 \times 4}{5 \times 4} = \frac{3 \times 5}{4 \times 5}$$

$$\text{That is, } \frac{8}{20} < \frac{15}{20}.$$

$$\text{We know that, } 8 < 9 < 10 < 11 < 12 < 13 < 14 < 15.$$

Therefore, we have,

$$\frac{8}{20} < \frac{9}{20} < \frac{10}{20} < \frac{11}{20} < \frac{12}{20} < \frac{13}{20} < \frac{14}{20} < \frac{15}{20}$$

Thus, 5 rational numbers between,  $\frac{8}{20}$  and  $\frac{15}{20}$  are:

$$\frac{9}{20}, \frac{10}{20}, \frac{11}{20}, \frac{12}{20} \text{ and } \frac{13}{20}$$

Question 6:

$$\text{Let } x = 3 \text{ and } y = 4$$

$$\text{Then, } x < y, \text{ because } 3 < 4$$

$$\text{We can say that, } \frac{21}{7} < \frac{28}{7}.$$

$$\text{We know that, } 21 < 22 < 23 < 24 < 25 < 26 < 27 < 28.$$

$$\text{Therefore, we have, } \frac{21}{7} < \frac{22}{7} < \frac{23}{7} < \frac{24}{7} < \frac{25}{7} < \frac{26}{7} < \frac{27}{7} < \frac{28}{7}$$

Therefore, 6 rational numbers between 3 and 4 are:

$$\frac{22}{7}, \frac{23}{7}, \frac{24}{7}, \frac{25}{7}, \frac{26}{7}, \frac{27}{7}$$

\*\*\*\*\* END \*\*\*\*\*

