

Exercise 1A

Question 5:

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

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

Or we can say that,  $\frac{2\times4}{5\times4} = \frac{3\times5}{4\times5}$ 

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

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:

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

Question 6:

Let x = 3 and y = 4

Then, x < y, because 3 < 4

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

We know that, 21<22<23<24<25<26<27<28

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:

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