



Exercise 5D

(i) $>$

(ii) $>$

(iii) $<$

(iv) $>$

(v) $<$

(vi) $>$

Q6

Answer :

$$\frac{4}{5}, \frac{5}{7}$$

By cross multiplying:

$$5 \times 5 = 25 \text{ and } 4 \times 7 = 28$$

Clearly, $28 > 25$

$$\therefore \frac{4}{5} > \frac{5}{7}$$

Q7

Answer :

$$\frac{3}{8}, \frac{5}{6}$$

By cross multiplying:

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$$3 \times 6 = 18 \text{ and } 5 \times 8 = 40$$

Clearly, $18 < 40$

$$\therefore \frac{3}{8} < \frac{5}{6}$$

Q8

Answer :

$$\frac{7}{11} , \frac{6}{7}$$

By cross multiplying:

$$7 \times 7 = 49 \text{ and } 11 \times 6 = 66$$

Clearly, $49 < 66$

$$\therefore \frac{7}{11} < \frac{6}{7}$$

Q9

Answer :

$$\frac{7}{11} , \frac{6}{7}$$

By cross multiplying:

$$5 \times 11 = 55 \text{ and } 9 \times 6 = 54$$

Clearly, $55 > 54$

$$\therefore \frac{5}{6} > \frac{9}{11}$$

Q10

Answer :

$$\frac{7}{11} , \frac{6}{7}$$

By cross multiplying:

$$2 \times 9 = 18 \text{ and } 4 \times 3 = 12$$

Clearly, $18 > 12$

$$\therefore \frac{2}{3} > \frac{4}{9}$$

Q11

Answer :

$$\frac{6}{13} , \frac{3}{4}$$

By cross multiplying:

$$6 \times 4 = 24 \text{ and } 13 \times 3 = 39$$

Clearly, $24 < 39$

$$\therefore \frac{6}{13} < \frac{3}{4}$$

Q12

Answer :

$$\frac{6}{13} , \frac{3}{4}$$

By cross multiplying:

$$3 \times 6 = 18 \text{ and } 4 \times 5 = 20$$

Clearly, $18 < 20$

$$\therefore \frac{3}{4} < \frac{5}{6}$$

Q13

Answer :

$$\frac{5}{8} , \frac{7}{12}$$

By cross multiplying:

$$5 \times 12 = 60 \text{ and } 8 \times 7 = 56$$

Clearly, $60 > 56$

$$\therefore \frac{5}{8} > \frac{7}{12}$$

Q14

Answer :

L.C.M. of 9 and 6 = $(3 \times 3 \times 2) = 18$

Now, we convert $\frac{4}{9}$ and $\frac{5}{6}$ into equivalent fractions having 18 as the denominator.

$$\therefore \frac{4}{9} = \frac{4 \times 2}{9 \times 2} = \frac{8}{18} \text{ and } \frac{5}{6} = \frac{5 \times 3}{6 \times 3} = \frac{15}{18}$$

$$\text{Clearly, } \frac{8}{18} < \frac{15}{18}$$

$$\therefore \frac{4}{9} < \frac{5}{6}$$

Q15

Answer :

$$\text{L.C.M. of 5 and 10} = (5 \times 2) = 10$$

***** END *****