$$2\frac{1}{5} \div 1\frac{1}{5} = \frac{11}{5} \div \frac{6}{5}$$

$$= \frac{11}{5} \times \frac{5}{6} \qquad [\because \text{Reciprocal of } \frac{6}{5} = \frac{5}{6}]$$

$$= \frac{11}{6} = 1\frac{5}{6}$$

Q14

Answer :

(d) $\frac{3}{5}$

Reciprocal of $1\frac{2}{3}$ = Reciprocal of $\frac{5}{3}$ = $\frac{3}{5}$

Q15

Answer :

(b) $\frac{3}{5} < \frac{2}{3} < \frac{14}{15}$

The given fractions are $\frac{3}{5}$, $\frac{2}{3}$ and $\frac{14}{15}$.

LCM of 5, 3 and 15 = 15

Now, we have:

$\frac{2}{3} \times \frac{5}{5} = \frac{10}{15}$, $\frac{3}{5} \times \frac{3}{3} = \frac{9}{15}$ and $\frac{14}{15} \times \frac{1}{1} = \frac{14}{15}$

Clearly, $\frac{9}{15} < \frac{10}{15} < \frac{14}{15}$

$\therefore \frac{3}{5} < \frac{2}{3} < \frac{14}{15}$

Q16

(c) 44 km

Distance covered by the car on $2\frac{3}{4}$ L of petrol $= \left(16 \times 2\frac{3}{4}\right)$ km

$$= \left(16 \times \frac{11}{4}\right) \text{ km}$$

$$= (4 \times 11) \text{ km} = 44 \text{ km}$$

Q17

Answer :

(a) $10\frac{1}{2}$ hours

Time taken by Lalit to read the entire book $= \left(6 \times 1\frac{3}{4}\right)$ h

$$= \left(6 \times \frac{7}{4}\right) \text{ h}$$

$$= \left(\frac{21}{2}\right) \text{ h} = 10\frac{1}{2} \text{ h}$$

********** END *********