



Rational Numbers Ex 1.7 Q12

Answer :

Let the number be x .

$$\therefore \frac{-33}{16} \div x = \frac{-11}{4}$$

$$\text{or } \frac{-33}{16} \times \frac{1}{x} = \frac{-11}{4}$$

$$\text{or } \frac{1}{x} = \frac{-11}{4} \times \frac{16}{-33}$$

$$\text{or } \frac{1}{x} = \frac{4}{3}$$

$$\text{or } x = \frac{3}{4}$$

Thus, the number is $\frac{3}{4}$.

Rational Numbers Ex 1.7 Q13

Answer :

$$\begin{aligned} & \left(\frac{-13}{5} + \frac{12}{7} \right) \div \left(\frac{-31}{7} \times \frac{-1}{2} \right) \\ &= \frac{-13 \times 7 + 12 \times 5}{35} \div \frac{31}{14} \\ &= \frac{-91 + 60}{35} \div \frac{31}{14} \\ &= \frac{-31}{35} \times \frac{14}{31} \\ &= \frac{-2}{5} \end{aligned}$$

Rational Numbers Ex 1.7 Q14

Answer :

$$\begin{aligned} & \left(\frac{65}{12} + \frac{12}{7} \right) \div \left(\frac{65}{12} - \frac{12}{7} \right) \\ &= \frac{65 \times 7 + 12 \times 12}{84} \div \frac{65 \times 7 - 12 \times 12}{84} \\ &= \frac{455 + 144}{84} \div \frac{455 - 144}{84} \\ &= \frac{599}{84} \div \frac{311}{84} \\ &= \frac{599}{84} \times \frac{84}{311} \\ &= \frac{599}{311} \end{aligned}$$

Rational Numbers Ex 1.7 Q15

Answer :

Cloth needed to prepare 24 trousers = 54 m

\therefore Length of the cloth required for each trousers = $54 \div 24 = \frac{54}{24} = \frac{9}{4}$ m = $2 \frac{1}{4}$ metres

***** END *****