



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 \*\*\*\*\*