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Sub:Maths   class-7   Topic- Division of fractions and word problems.

Do all questions of Ex-2.4 ,one of each type is done for you.

EXERCISE 2.4

Use **Cordova Smart Class Software** on the **smart board** in class to do Exercise.

1. Divide :

    (i) $\dfrac{14}{9}$ by 7   (ii) $\dfrac{15}{27}$ by 5   (iii) $\dfrac{18}{25}$ by $\dfrac{3}{50}$ (iv) 24 by $\dfrac{8}{3}$

2. Evaluate :

    (i) $3\dfrac{3}{5} \div 2\dfrac{2}{5}$ (ii) $1\dfrac{7}{104} \div \dfrac{11}{13}$ (iii) $40 \div 6\dfrac{2}{9}$ (iv) $6\dfrac{2}{5} \div 8$

3. Write down the reciprocal of each of the following fractions :

    (i) $\dfrac{1}{13}$ (ii) $12\dfrac{2}{5}$ (iii) 9   (iv) $\dfrac{6}{7}$

4. The cost of $4\dfrac{1}{4}$ kg of sugar is ₹ 68. Find the cost of 1 kg of sugar.

5. The product of a fraction and the sum of $2\dfrac{3}{4}$ and $3\dfrac{1}{2}$ is 5. Find the fraction.

6. Find a number such that its two-fifths is 12.

7. The product of two numbers is $\dfrac{16}{9}$. If one of the numbers is $\dfrac{5}{2}$, find the other number.

8. A rope of length $3\dfrac{3}{5}$ m has been divided into six pieces of equal length. What is the length of each piece?

9. If the cost of a notebook is ₹ $6\dfrac{1}{3}$, how many notebooks can be purchased for ₹ $126\dfrac{2}{3}$?

10. By what number should $10\dfrac{2}{3}$ be divided to obtain 20?

11. Find a number such that its two-thirds is equal to $\dfrac{5}{4}$.

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CLASS - 7
CHAPTER - 2
FRACTIONS
Exercise - 2.4
Assignment - 17

1. Divide:

(i) $\dfrac{14}{9}$ by 7

$= \dfrac{14}{9} \div \dfrac{7}{1} = \dfrac{14}{9} \times \dfrac{1}{7_1} = \dfrac{2}{9}$ Ans

(ii) $\dfrac{15}{27}$ by 5 $= \dfrac{15}{27} \div \dfrac{5}{1} = \dfrac{15^{3}}{27_9} \times \dfrac{1}{5_1} = \dfrac{1}{9}$ Ans

2. Evaluate:

(i) $3\dfrac{3}{5} \div 2\dfrac{2}{5}$

$= \dfrac{18}{5} \div \dfrac{12}{5} = \dfrac{18^{3}}{5_1} \times \dfrac{5^{1}}{12_{2}} = \dfrac{3}{2}$

3. Write down the reciprocal :-

(i) $\dfrac{1}{13}$ → The reciprocal of $\dfrac{1}{13}$ is $\dfrac{1}{\frac{1}{13}} = 13$.

(ii) 9 → The reciprocal of 9 is $\dfrac{1}{9}$.

(Ans-7)   Let the other number
be 'x'.
One of the numbers is $\frac{5}{2}$.

product of two numbers is $\frac{16}{9}$.

According to question -

$$x \times \frac{5}{2} = \frac{16}{9}$$

or $x = \frac{16}{9} \times \frac{2}{5} = \frac{32}{45}$ Ans.

Ans-11   Let the number be x.
According to the problem -

$$\frac{2}{3} \text{ of } x = \frac{5}{4}$$

or $\frac{2}{3} \times x = \frac{5}{4}$

or $x = \frac{5}{4} \times \frac{3}{2}$

$$= \frac{15}{8} = 1\frac{7}{8} \text{ Ans.}$$