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Tender Heart High School, Sec-33B, Chandigarh

Class - V
Subject - Maths

Date - 22.07.24
Teacher - Ms. Sushma

Exercise 4.9

Solve these story sums.

1. A designer used ----- 5 such shirts?

Soln:- Cloth used to stitch a shirt = $1\frac{1}{2} \text{ m} = \frac{3}{2} \text{ m}$
Cloth used to stitch 5 shirts = $\frac{5}{1} \times \frac{3}{2}$
 $= \frac{15}{2} = 7\frac{1}{2} \text{ m}$

So, $7\frac{1}{2} \text{ m}$ Cloth is used to stitch 5 shirts.

2. In a full set ----- set of teeth?

Soln:- No. of permanent teeth = 32
Fraction of molar teeth = $\frac{3}{8}$
No. of molar teeth
 $= \frac{3}{8} \text{ of } 32$
 $= \frac{3}{8} \times \frac{32}{1} = 3 \times 4 = 12$

∴ There are 12 molar teeth

3. $2\frac{3}{4} \text{ L}$ of paint ----- same wall?

Soln:- Paint required to paint 1 sq. m of wall = $2\frac{3}{4} \text{ L}$
 $= \frac{11}{4} \text{ L}$

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Paint required to paint $3\frac{1}{2}$ sq m of wall

$$= \frac{11}{4} \times 3\frac{1}{2}$$

$$= \frac{11}{4} \times \frac{7}{2} = \frac{77}{8}$$

$$= 9\frac{5}{8} \text{ L.}$$

So, $9\frac{5}{8}$ L paint is required.

Reciprocals:->

Two numbers are the reciprocals of each other if their product is 1. A reciprocal is also called multiplicative inverse.

$$\text{eg:- } \frac{3}{4} \times \frac{4}{3} = 1.$$

So, $\frac{4}{3}$ is the reciprocal of $\frac{3}{4}$.

Ex 4.10

Divide and write the answer in the lowest term.

1. $\frac{3}{8} \div \frac{1}{8}$

$$\frac{3}{8} \times \frac{8}{1} = \frac{3}{1} = 3 \text{ Ans.}$$

2. $\frac{7}{10} \div \frac{14}{10} = \frac{7}{10} \times \frac{10}{14} = \frac{1}{2}$

$$3. \frac{5}{3} \div \frac{15}{9} = \frac{\cancel{5}^1}{\cancel{3}_1} \times \frac{\cancel{9}^3}{\cancel{15}_3} = \frac{\cancel{8}^1}{\cancel{3}_1} = 1 \text{ Ans.}$$

$$4. \frac{5}{6} \div \frac{2}{3} = \frac{\cancel{5}}{\cancel{6}_2} \times \frac{\cancel{3}^1}{\cancel{2}} = \frac{5}{4}$$

$$5. 5 \div \frac{5}{8} = \frac{\cancel{5}^1}{\cancel{1}} \times \frac{\cancel{8}}{\cancel{5}_1} = \frac{8}{1} = 8$$

$$6. 2 \div \frac{1}{4} = \frac{2}{1} \times \frac{4}{1} = \frac{8}{1} = 8$$

$$7. \frac{1}{20} \div 4 = \frac{1}{20} \div \frac{4}{1} = \frac{1}{20} \times \frac{1}{4} = \frac{1}{80}$$

$$8. 3\frac{1}{5} \div \frac{4}{7} = \frac{16}{5} \div \frac{4}{7} = \frac{16^4}{5} \times \frac{7}{\cancel{4}_1} = \frac{28}{5} = 5\frac{3}{5}$$

$$9. 4\frac{2}{7} \div 2\frac{1}{7} = \frac{30}{7} \div \frac{15}{7} = \frac{\cancel{30}^2}{\cancel{7}_1} \times \frac{\cancel{7}^1}{\cancel{15}_1} = 2$$

$$10. 4\frac{1}{11} \div 5\frac{5}{8} = \frac{45}{11} \div \frac{45}{8} = \frac{\cancel{45}^1}{\cancel{11}} \times \frac{8}{\cancel{45}_1} = \frac{8}{11}$$

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Exercise 4.11

Solve these story sums.

Q1. $\frac{1}{5}$ m of a ribbon ----- 5m ribbon?

Soln:- Ribbon needed to make 1 flower = $\frac{1}{5}$ m.

No. of flowers can be made from 5m ribbon

$$= 5 \div \frac{1}{5}$$

$$= 5 \times \frac{5}{1} = 25$$

$\therefore$ So, 25 flowers can be made.

Q2. $5\frac{1}{2}$ kg of onions ----- can be packed?

Soln:- Total quantity of onions = $5\frac{1}{2}$ kg = $\frac{11}{2}$ kg

1 bag can hold = $\frac{1}{4}$ kg onions.

$$\text{No. of bags required} = \frac{11}{2} \div \frac{1}{4}$$

$$= \frac{11}{2} \times \frac{4^2}{1} = 22$$

$\therefore$ 22 packets can be made.

Q3. How many equal pieces of $\frac{1}{4}$ m can Shreya cut from a tape of length $6\frac{1}{2}$ m?

Soln:- Total length of a tape = $6\frac{1}{2}$ m = $\frac{13}{2}$ m
length of 1 piece = $\frac{1}{4}$ m

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No. of pieces can be cut = Total length $\div$
length of 1 piece

$$= \frac{13}{2} \div \frac{1}{4}$$

$$= \frac{13}{\cancel{2}_1} \times \frac{4^2}{1} = 26$$

$\therefore$ 26 pieces can be cut from a tape of
length $6\frac{1}{2}$ m.