



Name : - \_\_\_\_\_  
Roll No. : - \_\_\_\_\_

Shree Vasishtha Vidhyalaya  
Maths Worksheet 2025-26



Worksheet No. Term-1-01

Std.: - V - \_\_\_\_\_  
Date : - \_\_\_\_\_

[L-5 – Fractions (Ex-5F) and L- 6 – Multiplication and Division of fractions]

**Q-1 Choose the correct option.**

- 1) The reciprocal of  $\frac{2}{8}$  is \_\_\_\_\_.  
a)  $\frac{1}{4}$       b)  $\frac{6}{2}$       c)  $\frac{2}{8}$
- 2) Which of the following sentence will give an answer 1/5?  
a)  $\frac{1}{3} \times \frac{2}{1}$       b)  $\frac{1}{11} \times \frac{11}{5}$       c)  $\frac{3}{4} \times \frac{2}{5}$
- 3) Subtracting a fraction from itself is \_\_\_\_\_.  
a) 0      b) 1      c) number itself
- 4)  $\frac{3}{4}$  of 24 is \_\_\_\_\_.  
a) 12      b) 18      c) 28
- 5) Half of a half of 64 is \_\_\_\_\_.  
a) 16      b) 32      c) 8
- 6) Which of the following will give an answer 1?  
a)  $\frac{1}{3} \times \frac{2}{1}$       b)  $\frac{5}{11} \times \frac{11}{5}$       c)  $\frac{3}{4} \times \frac{2}{5}$

**Q-2 Fill in the blanks.**

- 1) A whole number is greater than a fraction.
- 2) The reciprocal of  $2\frac{4}{8}$  is  $\frac{8}{20}$ .       $2\frac{4}{8} \rightarrow \frac{20}{8} \rightarrow \frac{8}{20}$
- 3) The sum of a fraction and 0 is the fraction itself.
- 4) Reciprocals are number pairs that have the product 1.
- 5) Subtracting a fraction from itself is 0.
- 6) The reciprocal of 1 is 1.
- 7) Product of fractions =  $\frac{\text{Product of numerators}}{\text{Product of denominators}}$
- 8)  $\frac{2}{9} + \frac{5}{9} = \frac{5}{9} + \frac{2}{9}$

**Q-3 Match the following.**

Column-A	Column-B	Ans:-
1) $\frac{1}{5}$ of 15	a) 24	1- <u>d</u>
2) $\frac{2}{5}$ of a non-leap year	b) $\frac{3}{5}$	2- <u>c</u>
3) $\frac{3}{5}$ of 15 – 5 <sup>th</sup> multiple of $\frac{3}{5}$	c) 146	3- <u>e</u>
4) $\frac{2}{3} \times \frac{9}{10}$	d) 3	4- <u>b</u>
5) Two-third of 36	e) 6	5- <u>a</u>

Q-4 Solve the following.

1) Find  $\frac{1}{12}$  of 7200

$$\frac{1}{12} \times \frac{600}{7200} = 600$$

2) Divide 35 by  $\frac{7}{3}$

$$\frac{35}{1} \div \frac{7}{3} = \frac{5}{1} \times \frac{3}{7} = \frac{15}{1} = 15$$

3)  $\frac{3}{8} \times \frac{12}{21}$

$$\frac{1}{2} \times \frac{12}{3} = \frac{3}{14}$$

4)  $\frac{2}{5}$  of 365 days

$$\frac{2}{5} \times \frac{73}{365} \text{ days} = 146$$

5)  $\frac{2}{3} \div 5$

$$\frac{2}{3} \div \frac{5}{1} = \frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$$

6)  $1\frac{2}{3} \div 7\frac{1}{2}$

$$\frac{5}{3} \div \frac{15}{2} = \frac{5}{3} \times \frac{2}{15} = \frac{2}{9}$$

7)  $\frac{1}{4}$  of  $\frac{8}{3}$

$$\frac{1}{4} \times \frac{8}{3} = \frac{2}{3}$$

8)  $\frac{42}{15} \times \frac{3}{7} \times \frac{5}{36}$

$$\frac{42}{15} \times \frac{3}{7} \times \frac{5}{36} = \frac{1}{6}$$

Q-5 Story sums.

1) Mrs Aggarwal cut 40 metre rope into pieces, each  $2\frac{1}{2}$  m long. How many pieces could she cut?

- Length of a rope = 40 m
- Length of a piece to be cut =  $2\frac{1}{2}$  m
- No. of pieces Mrs Aggarwal cut =  $40 \div 2\frac{1}{2}$

$$\frac{40}{1} \div \frac{5}{2} = \frac{40}{1} \times \frac{2}{5} = 16$$

$\therefore$  Mrs Aggarwal could cut 16 pieces.

2) Manasvi had  $\frac{5}{9}$  of a sheet of chart paper. She used  $\frac{3}{5}$  of it to make some cards. How much chart paper did she use?

Sheet of Chart paper =  $\frac{5}{9}$

Manasvi used  $\frac{3}{5}$  of  $\frac{5}{9}$

$$\therefore \frac{1}{5} \times \frac{5}{9} = \frac{1}{9}$$

$$= \frac{1}{3}$$

$\therefore$  Manasvi used  $\frac{1}{3}$  of the chart paper for making cards.

Roshan drank orange juice from a 500 ml bottle. He found that  $\frac{2}{5}$  was remaining. How much did he drink?

Orange juice in a bottle = 500 ml  
 Remaining juice =  $\frac{2}{5}$  of 500 ml  
 $= \frac{2}{5} \times \frac{100}{500} \text{ ml}$   
 $= 200 \text{ ml}$

Juice drank by Roshan  
 $= 500 \text{ ml} - 200 \text{ ml}$   
 $= 300 \text{ ml}$   
 $\therefore$  Roshan drank 300 ml of orange juice

4) Shanaya adds  $\frac{5}{9}$  l of apple juice to  $\frac{1}{2}$  l of orange juice to make fruit punch. How many litres of fruit punch does she have?

Apple juice =  $\frac{5}{9}$  l.

$$= \frac{5 \times 2}{9 \times 2} + \frac{1 \times 9}{2 \times 9}$$

Orange juice =  $\frac{1}{2}$  l.

$$= \frac{10}{18} + \frac{9}{18}$$

Quantity of fruit punch

$$= \frac{19}{18} \text{ l.}$$

$= \frac{5}{9} + \frac{1}{2}$  (LCM = 18)

$$= 1 \frac{1}{18} \text{ l.}$$

$\therefore$  Shanaya has  $1 \frac{1}{18}$  l of fruit punch.

5) There are 40 students in a class.  $\frac{2}{5}$  of the students are girls. How many girls are there in the class?

No. of students in a class = 40.

Girls =  $\frac{2}{5}$  of 40.

$$= \frac{2}{5} \times \frac{8}{40}$$

$$= 16$$

$\therefore$  There are 16 girls in a class.

6) Riya spends  $\frac{2}{5}$  of her money in buying a necklace. She spends  $\frac{4}{9}$  of the remaining money on eating out. What fraction of her money does she spend in eating out?

Riya's money = 1  
 Money with Riya after buying a necklace  
 $= 1 - \frac{2}{5}$  (LCM = 5)  
 $= \frac{1 \times 5}{1 \times 5} - \frac{2}{5}$

$$= \frac{5}{5} - \frac{2}{5}$$

$$= \frac{3}{5}$$

Fraction of money spent by Riya =  $\frac{4}{9}$  of  $\frac{3}{5}$

$$= \frac{4}{9} \times \frac{3}{5}$$

$$= \frac{4}{15}$$

$\therefore$  Riya spent  $\frac{4}{15}$  of her money in eating out.