



Name : - _____

Std.:- V - _____

Roll No. :- _____

Worksheet No. Term-1-01

Date : - _____

[L-6 Fractions]

Q-1 Choose the correct option.

1) What is the equivalent fraction of $\frac{3}{5}$?

a) $\frac{9}{25}$

☒ b) $\frac{15}{25}$

c) $\frac{21}{15}$

2) Which of the following sentence will give an answer $1/5$?

a) $\frac{1}{3} \times \frac{2}{1}$

☒ b) $\frac{1}{12} \times \frac{12}{5}$

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) The product of a fraction and 0 is _____.

a) Fraction itself

b) 1

☒ c) 0

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) $\frac{3}{4} \times \frac{2}{5}$

7) What is the sum of $\frac{5}{6}$ and $\frac{3}{4}$?

☒ a) $\frac{19}{12}$

b) $\frac{12}{24}$

c) $\frac{8}{12}$

8) Which of the following forms an improper fraction?

a) $\frac{21}{25} \times 0$

☒ b) $\frac{24}{21} \times 1$

c) $\frac{4}{5} \times 1$

Q-2 Fill in the blanks.

1) A whole number is greater than a fraction.

2) The reciprocal of $2\frac{4}{8}$ is $\frac{8}{20}$. $\frac{20}{8} \rightarrow \frac{8}{20}$

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 150 $\frac{1}{5} \times 150^{30}$	a) 24	1- <u>d</u>
2) $\frac{2}{5}$ of a non-leap year $\frac{2}{5} \times 365^{73}$	b) $\frac{3}{5}$	2- <u>c</u>
3) $\frac{3}{5}$ of 15 - 5 th multiple of $\frac{3}{5}$ <u>9-3</u>	c) 146	3- <u>e</u>
4) $\frac{2}{3} \times \frac{9}{10}$	d) 30	4- <u>b</u>
5) Two-third of 36 $\frac{2}{3} \times 36^{12}$	e) 6	5- <u>a</u>

Q-4 Solve the following.

1) Find $\frac{1}{9}$ of 7200 $\frac{1}{9} \times 7200^{800}$ $= \boxed{800}$	2) Divide 35 by $\frac{5}{3}$ $= 35 \div \left(\frac{5}{3}\right)$ $= \frac{35}{1} \times \frac{3}{5}$ $= \frac{21}{1} = \boxed{21}$	3) $\frac{7}{8} \times \frac{12}{21}$ $= \frac{7}{8} \times \frac{12}{21}$ $= \boxed{\frac{1}{2}}$	4) $\frac{2}{5}$ of 300 days $\frac{2}{5} \times 300^{60}$ days $= \boxed{120 \text{ days}}$
5) $\frac{2}{3} \div 5$ $= \frac{2}{3} \div \left(\frac{5}{1}\right)$ $= \frac{2}{3} \times \frac{1}{5}$ $= \boxed{\frac{2}{15}}$	6) $\frac{2}{3} \div 7\frac{1}{2}$ $= \frac{2}{3} \div \left(\frac{15}{2}\right)$ $= \frac{2}{3} \times \frac{2}{15}$ $= \boxed{\frac{2}{9}}$	7) $\frac{1}{4}$ of $\frac{8}{3}$ $= \frac{1}{4} \times \frac{8}{3}$ $= \boxed{\frac{2}{3}}$	8) $\frac{42}{15} \times \frac{3}{7} \times \frac{5}{36}$ $= \frac{42}{15} \times \frac{3}{7} \times \frac{5}{36}$ $= \boxed{\frac{1}{6}}$
9) $19\frac{1}{2} - 3\frac{1}{4}$ $= \frac{39}{2} - \frac{13}{4}$ (LCM=4) $= \frac{39 \times 2}{2 \times 2} - \frac{13}{4}$ $= \frac{78}{4} - \frac{13}{4}$ $= \frac{78-13}{4}$ $= \frac{65}{4}$ $= \boxed{16\frac{1}{4}}$	10) $5\frac{3}{4} - 3\frac{1}{6}$ $= \frac{23}{4} - \frac{19}{6}$ (LCM=12) $= \frac{23 \times 3}{4 \times 3} - \frac{19 \times 2}{6 \times 2}$ $= \frac{69}{12} - \frac{38}{12}$ $= \frac{69-38}{12}$ $= \frac{31}{12}$ $= \boxed{2\frac{7}{12}}$	11) $\frac{7}{15} + \frac{2}{5}$ (LCM=15) $= \frac{7}{15} + \frac{2 \times 3}{5 \times 3}$ $= \frac{7}{15} + \frac{6}{15}$ $= \frac{7+6}{15}$ $= \boxed{\frac{13}{15}}$	12) $\frac{5}{7} + \frac{1}{14} + \frac{1}{2}$ (LCM=14) $= \frac{5 \times 2}{7 \times 2} + \frac{1}{14} + \frac{1 \times 7}{2 \times 7}$ $= \frac{10}{14} + \frac{1}{14} + \frac{7}{14}$ $= \frac{10+1+7}{14}$ $= \frac{18}{14}$ $= \frac{9}{7}$ $= \boxed{1\frac{2}{7}}$

Q-5 Compare >, < or =.

1) $\frac{5}{12} < \frac{7}{16}$

2) $\frac{5}{7} > \frac{3}{7}$

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

4) $\frac{11}{20} > \frac{7}{15}$

Q-6 Write true or false.

- 1) When a fraction is divided by 1, the quotient is always the fraction itself.
- 2) The product of any fraction and 1 is always 0.
- 3) $\frac{1}{2}$ is the simplest form of $\frac{4}{12}$.
- 4) $1 = \frac{2}{2}$.
- 5) $\frac{2}{9} = \frac{4}{18}$.
- 6) A fraction shows a part of a whole.
- 7) In the fraction $\frac{3}{5}$, 3 is the denominator.
- 8) Proper fractions are always greater than 1.
- 9) $\frac{7}{3}$ is an improper fraction.
- 10) When fractions have the same denominator, we compare numerators.

True
False
False
True
True
True
False
False
True
True

Q-7 Story sums.

- 1) One-fifth of students of a class have curly hair. What fraction of students of the class do not have curly?

Total students = $\frac{5}{5}$ (i.e. 1)

Students having curly hair = $\frac{1}{5}$

Students not having curly hair = $\frac{5}{5} - \frac{1}{5} = \frac{4}{5}$

$\therefore \frac{4}{5}$ of the class do not have curly hair.

- 2) Reena drinks $\frac{3}{4}$ litre of milk and Meena drinks $\frac{2}{3}$ litre of milk in a day. Who drinks more milk and how much more?

Reena drinks $\frac{3}{4}$ l milk.

Meena drinks $\frac{2}{3}$ l milk.

→ Reena Meena

$\frac{3}{4} > \frac{2}{3}$

$\therefore \frac{3}{4} - \frac{2}{3}$ (LCM = 12)

$= \frac{3 \times 3}{4 \times 3} - \frac{2 \times 4}{3 \times 4}$

$= \frac{9}{12} - \frac{8}{12}$

$= \frac{1}{12}$

$\therefore$ Reena drinks $\frac{1}{12}$ of more milk.

- 3) A man had 80 metres of cloth. He sold $\frac{4}{5}$ of it. How many metres of cloth did he sell?

Total length of a cloth = 80m

Man sold $\frac{4}{5}$ of 80m

$\therefore \frac{4}{5} \times \frac{16}{1} \times 80m$

$= 64m$

$\therefore$ The man sold 64 m of cloth.

4) Roshan divided $\frac{3}{5}$ of his property equally among his 3 children. What part of the whole property did each child get?

$$\text{Property divided by Roshan} = \frac{3}{5} = \frac{3}{5} \times \frac{1}{3}$$

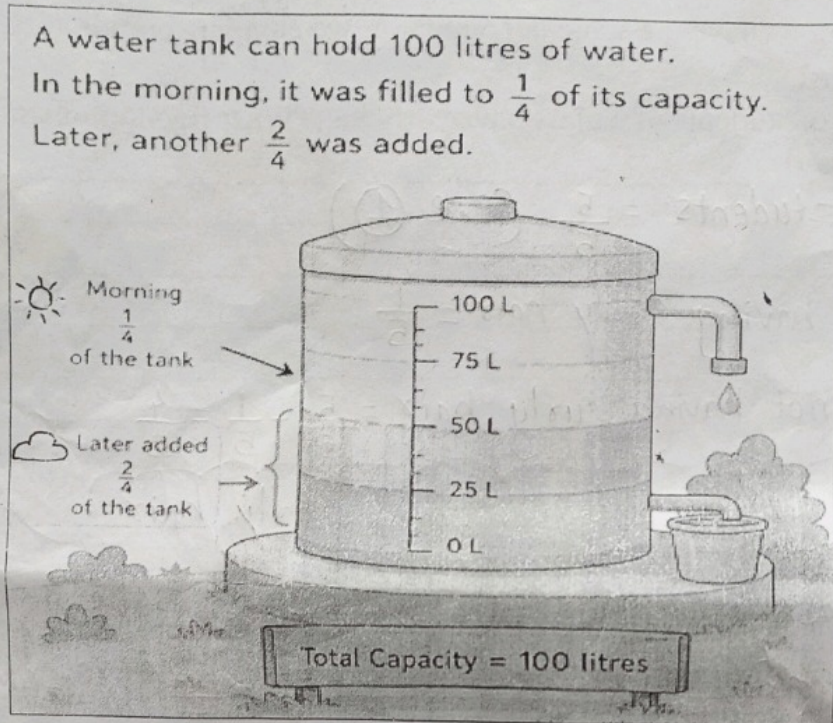
No. of children = 3.

Part of a property each child will get = $\frac{3}{5} \div 3$

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

$\therefore$ Each child will get $\frac{1}{5}$ of the property

Q.8 Case Study:



Q.1) How much water was in the tank in the morning?

$$\frac{1}{4} \text{ of } 100 \text{ L} \rightarrow \frac{1}{4} \times 100 \text{ L} = 25 \text{ L}$$

Q.2) How much water was added later?

$$\frac{2}{4} \text{ of } 100 \text{ L} \rightarrow \frac{2}{4} \times 100 \text{ L} = 50 \text{ L}$$

Q.3) What fraction of the tank is full?

$$\frac{1}{4} + \frac{2}{4} = \frac{3}{4} \text{ L}$$

Q.4) What is the empty volume?

$$\begin{aligned} & 100 \text{ L} - (25 \text{ L} + 50 \text{ L}) \\ &= 100 \text{ L} - 75 \text{ L} \\ &= 25 \text{ L} \end{aligned}$$