



SHREE VASISHTHA VIDHYALAYA

Maths Worksheet 2025-26



Name : - _____

Std.:- IV - _____

Roll No. :- _____

Worksheet – TA-1-01

Date : - _____

L-5 Factors and multiples, L-6 Fractions (Ex- 6A to 6C)

Q. 1) Choose the correct option.

1) What are the factors of 18 ?

☒ a) 1,2,3,6,9,18

b) 1,2,9,18

c) 1,3,6,9,18

2) Which of the following is a multiple of 7 ?

a) 47

b) 48

☒ c) 49

3) The smallest non-zero multiple of any number is _____

a) 0

b) 1

☒ c) number itself

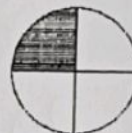
4) The number that have only two factors 1 and the number itself are called _____

a) Composite number

☒ b) Prime number

c) Even number

5) Which fraction represents the unshaded part of the given figure?



☒ a) $\frac{3}{4}$

b) $\frac{2}{4}$

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

6) Which of the following fraction is equivalent to $\frac{7}{3}$

a) $\frac{1}{7}$

☒ b) $\frac{14}{6}$

c) $\frac{21}{6}$

7) Which of these a proper fraction?

a) $\frac{7}{2}$

☒ b) $\frac{3}{8}$

c) $\frac{9}{4}$

8) Which is the mixed number (fraction) for $\frac{9}{5}$?

a) $1\frac{2}{5}$

b) $1\frac{3}{5}$

☒ c) $1\frac{4}{5}$

Q. 2) Fill in the blanks.

1) 1 is a factor of every number.

2) If $5 \times 7 = 35$, then 5 and 7 are factors of 35.

3) A number that has more than two factors are called a Composite number.

4) The multiple of 5 always end in 0 or 5.

5) A number can have an infinite number of multiples.

6) Every number is a multiple of itself.

7) In the fraction $\frac{3}{5}$, the numerator is 3 and the denominator is 5.

8) Fraction with the same denominators is called like fraction.

9) A fraction is a part of a whole.

10) If a pizza is cut into 8 equal slices, and you eat 3 of them, the fraction of the pizza you ate is $\frac{3}{8}$

Q. 3) Match the following.

(A)

- 1) Factor of 10
- 2) All factors of 8
- 3) Multiple of 3
- 4) First four multiples of 4



- 6) Mixed fraction
- 7) Improper fraction



8)

(B)

- a) 1,2,4,8
- b) 9
- c) 4,8,12,16
- d) 5
- e) $\frac{13}{2}$
- f) $\frac{3}{4}$
- g) $\frac{1}{3}$
- h) $2\frac{5}{7}$

Ans:-

- 1- d
- 2- a
- 3- b
- 4- c
- 5- f
- 6- h
- 7- e
- 8- g

Q. 4) True and false.

- 1) A factor of a number is always greater than the number itself.
- 2) $\frac{3}{4}$ is an improper fraction.
- 3) All prime numbers are odd numbers.
- 4) 5 is a factor of 23.
- 5) $\frac{2}{3}$ and $\frac{3}{4}$ are unlike fractions.
- 6) Every number is a multiple of itself.
- 7) The denominator tells us the total number of equal parts in a whole.
- 8) A mixed fraction has a whole number and a proper fraction part.

F
F
F
F
T
T
T
T

Q. 5) Write three multiple of:

- 1) 9 just after 45
- 2) 12 just before 60
- 3) 15 between 38 and 80

$9 \times 6 = 54$, $9 \times 7 = 63$, $9 \times 8 = 72$
 $12 \times 2 = 24$, $12 \times 3 = 36$, $12 \times 4 = 48$
 $15 \times 3 = 45$, $15 \times 4 = 60$, $15 \times 5 = 75$

Q. 6) To Check:

1) Is 7 a factor of 72901?

Solution:

$$\begin{array}{r}
 10414 \\
 7 \overline{) 72901} \\
 \underline{-7} \downarrow \downarrow \downarrow \\
 029 \\
 \underline{-28} \downarrow \\
 10 \\
 \underline{-7} \downarrow \\
 31 \\
 \underline{-28} \\
 3 \rightarrow R
 \end{array}$$

Here, $R \neq 0$
 So, 7 is not a factor of 72901.

2) Is 93 a factor of 98766?

Solution:

$$\begin{array}{r}
 1062 \\
 93 \overline{) 98766} \\
 \underline{-93} \downarrow \downarrow \downarrow \\
 576 \\
 \underline{-558} \downarrow \\
 186 \\
 \underline{-186} \\
 0 \rightarrow R
 \end{array}$$

Here, $R = 0$

Yes, 93 is a factor of 98766.

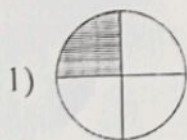
Q. 7) Write the prime factorisation of the given numbers by making factor tree.

1) 96 $\therefore 96 = 2 \times 2 \times 2 \times 2 \times 2 \times 3$	2) 108 $108 = 2 \times 2 \times 3 \times 3 \times 3$	3) 170 $\therefore 170 = 2 \times 5 \times 17$	4) 135 $\therefore 135 = 3 \times 3 \times 3 \times 5$
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Q. 8) Write the prime factorisation of the given numbers by division method

1) 48 $48 = 2 \times 2 \times 2 \times 2 \times 3$	2) 64 $64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$	3) 120 $120 = 2 \times 2 \times 2 \times 3 \times 5$	4) 78 $78 = 2 \times 3 \times 13$	5) 56 $56 = 2 \times 2 \times 2 \times 7$
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Q. 9) Write the fraction of the following figures.



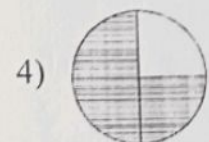
$$\frac{1}{4}$$



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



$$\frac{2}{7}$$



$$\frac{3}{4}$$

Q. 10) Write in numeral form.

1) Three-quarters

2) Two-third

3) Three-tenth

4) Six-hundredths

5) Seventeen-twentieths

$$\frac{3}{4}$$

$$\frac{2}{3}$$

$$\frac{3}{10}$$

$$\frac{6}{100}$$

$$\frac{17}{20}$$

Q. 11) Convert each of the following fraction into a mixed fraction.

1) $\frac{7}{2}$ $\begin{array}{r} 3 \leftarrow Q \\ D \rightarrow 2 \overline{) 7} \\ \underline{-6} \\ 1 \leftarrow R \end{array}$ So, $Q \frac{R}{D} = 3\frac{1}{2}$	2) $\frac{87}{5}$ $\begin{array}{r} 17 \leftarrow Q \\ D \rightarrow 5 \overline{) 87} \\ \underline{-5} \downarrow \\ 37 \\ \underline{-35} \\ 2 \leftarrow R \end{array}$ So, $Q \frac{R}{D} = 17\frac{2}{5}$	3) $\frac{1998}{11}$ $\begin{array}{r} 181 \leftarrow Q \\ D \rightarrow 11 \overline{) 1998} \\ \underline{-11} \downarrow \\ 89 \\ \underline{-88} \downarrow \\ 18 \\ \underline{-11} \downarrow \\ 7 \leftarrow R \end{array}$ So, $Q \frac{R}{D} = 181\frac{7}{11}$	4) $\frac{84}{59}$ $\begin{array}{r} 1 \leftarrow Q \\ D \rightarrow 59 \overline{) 84} \\ \underline{-59} \\ 25 \leftarrow R \end{array}$ So, $Q \frac{R}{D} = 1\frac{25}{59}$
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Q. 12) Convert each of the following mixed numerals into an improper fraction.

1) $1\frac{2}{3}$ $\begin{aligned} &= \frac{3 \times 1 + 2}{3} \\ &= \frac{3+2}{3} \\ &= \frac{5}{3} \end{aligned}$	2) $7\frac{8}{9}$ $\begin{aligned} &= \frac{9 \times 7 + 8}{9} \\ &= \frac{63+8}{9} \\ &= \frac{71}{9} \end{aligned}$	3) $70\frac{8}{9}$ $\begin{aligned} &= \frac{9 \times 70 + 8}{9} \\ &= \frac{630+8}{9} \\ &= \frac{638}{9} \end{aligned}$	4) $203\frac{1}{25}$ $\begin{aligned} &= \frac{25 \times 203 + 1}{25} \\ &= \frac{5075+1}{25} \\ &= \frac{5076}{25} \end{aligned}$
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Q. 13) Write the next six fraction equivalent to:

1) $\frac{11}{2} = \frac{11 \times 2}{2 \times 2} = \frac{11 \times 3}{2 \times 3} = \frac{11 \times 4}{2 \times 4} = \frac{11 \times 5}{2 \times 5} = \frac{11 \times 6}{2 \times 6} = \frac{11 \times 7}{2 \times 7}$

So, $\frac{11}{2} = \frac{22}{4} = \frac{33}{6} = \frac{44}{8} = \frac{55}{10} = \frac{66}{12} = \frac{77}{14}$

2) $\frac{9}{12} = \frac{9 \times 2}{12 \times 2} = \frac{9 \times 3}{12 \times 3} = \frac{9 \times 4}{12 \times 4} = \frac{9 \times 5}{12 \times 5} = \frac{9 \times 6}{12 \times 6} = \frac{9 \times 7}{12 \times 7}$

So, $\frac{9}{12} = \frac{18}{24} = \frac{27}{36} = \frac{36}{48} = \frac{45}{60} = \frac{54}{72} = \frac{63}{84}$

3) $\frac{5}{8} = \frac{5 \times 2}{8 \times 2} = \frac{5 \times 3}{8 \times 3} = \frac{5 \times 4}{8 \times 4} = \frac{5 \times 5}{8 \times 5} = \frac{5 \times 6}{8 \times 6} = \frac{5 \times 7}{8 \times 7}$

So, $\frac{5}{8} = \frac{10}{16} = \frac{15}{24} = \frac{20}{32} = \frac{25}{40} = \frac{30}{48} = \frac{35}{56}$