



SHREE VASISHTHA VIDHYALAYA.

Maths Worksheet 2026-27

Name :- _____

Std :- IV - _____

Roll No. :- _____

Worksheet No : TA-01

Date :- _____

[L-5 Factors and multiples, L-6 Fractions]

Q-1 Choose the Correct Option.

1. Which fraction represents 3 out of 7 equal parts?

a) $\frac{7}{3}$

☒ b) $\frac{3}{7}$

c) $\frac{4}{7}$

2. Which fraction is equivalent to $\frac{1}{2}$?

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

☒ b) $\frac{3}{6}$

c) $\frac{2}{5}$

3. Which of the following is a factor of 36?

a) 5

b) 7

☒ c) 9

4. Which number is a multiple of 8?

a) 18

☒ b) 24

c) 30

5. Which statement is correct?

a) Every number has 0 as a factor.

☒ b) 1 is a factor of every number.

c) Every number has only one factor.

6. $\frac{9}{19}$ > $\frac{9}{23}$

a) =

b) <

☒ c) >

7. What is $\frac{1}{4}$ of one hour (in minutes)?

☒ a) 15

b) 60

c) 30

8. Which of following is a prime number between 90 and 100?

a) 91

b) 93

☒ c) 97

Q-2 Fill in the blanks.

1. 1 is the smallest factor of any non-zero number.

2. Every factor of a non-zero number is less than or equal to the number.

3. A number is divisible by 10, if the digit at its ones place is 0.

4. A number that has more than two factors is called a composite number.

5. A fraction with numerator 1 is called a unit fraction.

6. First four prime numbers are 2, 3, 5 and 7.

Q-3 True or False.

1. 24 is a multiple of 6.

True

2. 7 is a factor of 42.

True

3. $\frac{5}{8}$ is greater than $\frac{7}{8}$.

False

4. $\frac{2}{4}$ and $\frac{1}{2}$ are equivalent fractions.

True

5. Smallest composite number is 2.

False



Q-4 Do as directed.

1. Find all the factors of

a) 16	b) 36	c) 48
1×16	1×36	1×48
2×8	2×18	2×24
4×4	3×12	3×16
	4×9	4×12
	6×6	6×8
Factors of 16: 1, 2, 4, 8, 16	Factors: 1, 2, 3, 4, 6, 9, 12, 18, 36	Factors: 1, 2, 3, 4, 6, 8, 12, 16, 24, 48

2. Find the common factors of

a) 12 and 28	b) 24 and 72
Factors of 12: 1, 2, 3, 4, 6, 12	Factors of 24: 1, 2, 3, 4, 6, 8, 12, 24
Factors of 28: 1, 2, 4, 7, 14, 28	Factors of 72: 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, 72
Common factors: 1, 2, 4	Common factors: 1, 2, 3, 4, 6, 8, 12, 24

3. Write the 3rd, 5th, 7th and 9th multiples of the following numbers.

a) 7 - 21, 35, 49, 63 b) 13 - 39, 65, 91, 117

4. Without actual division, check whether the given numbers are divisible by 2, 3, 4 and 6.

a) 8248	b) 2186
2: Yes (Ends in 8, an even no.)	2: Yes (Ends by an even number)
3: No (Sum of digits = 22)	3: No (Sum of digits = 17)
4: Yes (Last 2 digits 48)	4: No (Last 2 digits 86)
6: No (Divisible by 2, not by 3)	6: No (Divisible by 2, not by 3)

5. Find the prime factorisation by using the factor tree method.

a) 28	b) 84
$ \begin{array}{c} 28 \\ \swarrow \searrow \\ (2) \times 14 \\ \swarrow \searrow \\ (2) \times (7) \\ 2 \times 2 \times 7 = 28 \end{array} $	$ \begin{array}{c} 84 \\ \swarrow \searrow \\ (2) \times 42 \\ \swarrow \searrow \\ (2) \times 21 \\ \swarrow \searrow \\ (3) \times (7) \\ 2 \times 2 \times 3 \times 7 = 84 \end{array} $

6. Find the prime factorisation using the division method.

a) 96	b) 44
2 96	2 44
2 48	2 22
2 24	11 11
2 12	1 1
2 6	
3 3	
1 1	
$2 \times 2 \times 2 \times 2 \times 2 \times 3 = 96$	$2 \times 2 \times 11 = 44$

7. Convert improper fractions into mixed fractions.

a) $\frac{12}{7}$ $Q \frac{R}{D} = 1 \frac{5}{7}$ $7 \overline{) 12} \begin{array}{r} 1 \\ \underline{7} \\ 5 \end{array}$	b) $\frac{41}{8}$ $Q \frac{R}{D} = 5 \frac{1}{8}$ $8 \overline{) 41} \begin{array}{r} 5 \\ \underline{40} \\ 1 \end{array}$
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8. Express the following mixed fractions as improper fractions.

a) $5 \frac{4}{7}$ $\frac{7 \times 5 + 4}{7} = \frac{39}{7}$	b) $4 \frac{2}{9}$ $\frac{9 \times 4 + 2}{9} = \frac{38}{9}$
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9. Write three fractions equivalent to each of the following.

a) $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$	b) $\frac{4}{7} = \frac{8}{14} = \frac{12}{21} = \frac{16}{28}$
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10. Arrange the like fractions in descending order.

a) $\frac{6}{7}, \frac{4}{7}, \frac{3}{7}, \frac{1}{7}, \frac{2}{7}$	b) $\frac{1}{10}, \frac{4}{10}, \frac{25}{10}, \frac{13}{10}, \frac{8}{10}$
$\frac{6}{7}, \frac{4}{7}, \frac{3}{7}, \frac{2}{7}, \frac{1}{7}$	$\frac{25}{10}, \frac{13}{10}, \frac{8}{10}, \frac{4}{10}, \frac{1}{10}$

11. Arrange unlike fractions with the same numerator in ascending order.

a) $\frac{2}{13}, \frac{2}{3}, \frac{2}{9}, \frac{2}{17}$	b) $\frac{5}{11}, \frac{5}{13}, \frac{5}{7}, \frac{5}{19}$
$\frac{2}{17}, \frac{2}{13}, \frac{2}{9}, \frac{2}{3}$	$\frac{5}{19}, \frac{5}{13}, \frac{5}{11}, \frac{5}{7}$

12. Reduce the fractions to their simplest forms.

a) $\frac{15}{40}$	b) $\frac{32}{72}$
$\frac{15 \div 5}{40 \div 5} = \frac{3}{8}$	$\frac{32 \div 8}{72 \div 8} = \frac{4}{9}$

13. Add and write your answer in simplest form.

a) $\frac{11}{18}$ and $\frac{5}{18}$	b) $\frac{3}{15}, \frac{6}{15}$ and $\frac{4}{15}$
$\frac{11+5}{18} = \frac{16 \div 2}{18 \div 2} = \frac{8}{9}$	$\frac{3+6+4}{15} = \frac{13}{15}$

14. Subtract and write your answer in simplest form.

a) $\frac{17}{23}$ from $\frac{21}{23}$	b) $\frac{2}{11}$ from $\frac{9}{11}$
$\frac{21-17}{23} = \frac{4}{23}$	$\frac{9-2}{11} = \frac{7}{11}$

Q-5 Story sums.

1. Sonu got $\frac{38}{50}$ in English and $\frac{47}{50}$ in Maths. Find the difference between the marks in the two subjects.

Solution: Marks in Maths = $\frac{47}{50}$

Marks in English = $\frac{38}{50}$

Difference = $\frac{47}{50} - \frac{38}{50} = \frac{9}{50}$

Thus, The difference in marks is $\frac{9}{50}$.

2. Anaya walked $\frac{5}{12}$ km in the morning and $\frac{6}{12}$ km in the evening. How far did she walk altogether?

Solution: Distance walked in the morning = $\frac{5}{12}$ km

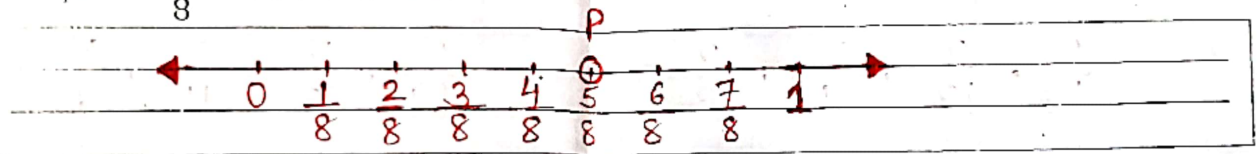
Distance walked in the evening = $\frac{6}{12}$ km

Total distance = $\frac{5+6}{12} = \frac{11}{12}$ km

Thus, Anaya walked $\frac{11}{12}$ km altogether.

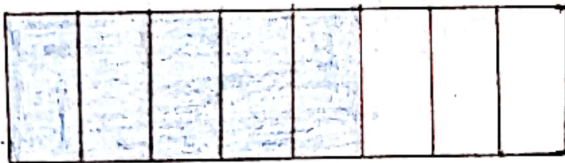
Q-6 Draw as per the given instructions.

1. Represent $\frac{5}{8}$ on the number line.

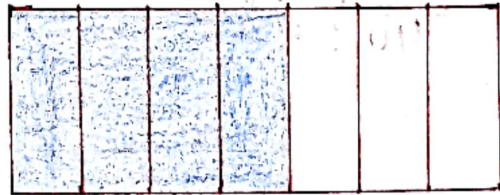


2. Represent the following fraction by drawing suitable shapes and shading the required part.

a) $\frac{5}{8}$



b) $\frac{4}{7}$



Q-7 Case study.

1. A pizza is divided into 8 equal pieces. Aarav eats 3 pieces and his sister eats 2 pieces.

a) What fraction of the pizza did Aarav eat? $\frac{3}{8}$

a) What fraction of the pizza was eaten altogether? $\frac{3+2}{8} = \frac{5}{8}$

c) What fraction is left? $\frac{8-5}{8} = \frac{3}{8}$

2. There are 30 students in a class. The teacher wants to make equal groups.

a) Write any four factors of 30. 1, 2, 3, 5

b) Can the teacher make groups of 5 students each? Yes (Yes / No)

c) How many groups will be formed? 6