SHREE VASISHTHA VIDHYALAYA

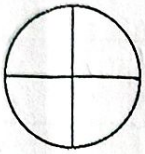
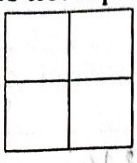
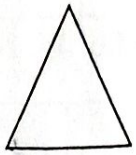
Maths Worksheet 2025-26

Name : - _____ Std.:- V - _____

Roll No. :- _____ Worksheet No.PA1 Date : - _____

L-4 Factors & Multiples, L-5 Fraction, L-17 Patterns

Q. 1) Choose the correct option.

1. The HCF of 630 and 805 is _____.
   a) 25 b) 30 c) 35
2. The LCM of 15, 25 and 30 is _____.
   a) 120 b) 180 c) 150
3. Which two fractions are equivalent?
   a) $\frac{3}{5}$ and $\frac{12}{20}$ b) $\frac{2}{7}$ and $\frac{3}{7}$ c) $\frac{2}{3}$ and $\frac{1}{3}$
4. Which of the following figures does not represent a fraction equivalent to others?
   a)  b)  c) 
5. The next number of the pattern 5, 12, 19, 26 is _____.
   a) 31 b) 37 c) 33
6. Which of these are co-prime?
   a) 16, 18 b) 11, 48 c) 8, 28
7. 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) $\frac{3}{4} \times \frac{2}{5}$
8. What is the third triangular number?
   a) 6 b) 3 c) 10
9. Compare the following: $\frac{2}{11}$ ☐ $\frac{7}{11}$
   a) < b) > c) =

Q. 2) Fill in the blanks.

1. A whole number is a fraction with denominator 1.
2. Prime numbers that differ by 2 are called Twin Prime
3. A number is divisible by 5 if its ones digit is 0 or 5.
4. Any whole number which has more than 2 factors is called a Composite number.
5. The next number in the Sequence is 3, 33, 333, 3333
6. A number is divisible by 6, if the number is divisible by 2 and 3 both.
7. A fraction is a part of a Whole.
8. Write the next three numbers and complete the pattern. 1, 8, 27, 64, 125, 216, 343

Q. 3) State True or Fasle.

1. 1 is a factor of every number. T
2. 136 is an odd number. F
3. Smallest even natural number is 4. F
4. The 3rd multiple of 5 is 20. F
5. Common factor of 2 and 5 is 1. T

Q. 4) Match the following.

Column-A	Column-B	Ans.
1. 1 fourth + 1 half	a) 25 paise	1.- c
2. Greatest factor of 26	b) 4	2.- e
3. $\frac{1}{4}$ of 1 Rupee	c) 3 fourths	3.- a
4. Least composite number	d) improper fraction	4.- b
5. $\frac{9}{5}$	e) 26	5.- d

Q. 5) Do as directed.

1. List all the factors of the following numbers.

a) 30 = 1, 2, 3, 5, 6, 10, 15, 30 b) 95 = 1, 5, 19, 95

c) 36 = 1, 2, 3, 4, 6, 9, 12, 18, 36 d) 121 = 1, 11, 121

2. Find the LCM of 12, 20 and 30 by listing the multiples.

12 = 12, 24, 36, 48, 60

20 = 20, 40, 60 Lcm = 60

30 = 30, 60

3. Find the LCM of 16, 28 and 40 by prime factorisation.

2 | 16 2 | 8 2 | 4 2 | 2 1	2 | 28 2 | 14 7 | 7 1	2 | 40 2 | 20 2 | 10 5 | 5 1	Lcm = 2 × 2 × 2 × 2 × 5 × 7 = 560
16 = 2 × 2 × 2 × 2	28 = 2 × 2 × 7	40 = 2 × 2 × 2 × 5	

4. Add :

a) $3\frac{5}{6} + 4\frac{1}{6}$

$\frac{23}{6} + \frac{25}{6}$

$\frac{48^{8}}{6} = 8$

b) $\frac{2}{3} + \frac{3}{4} + \frac{5}{12}$; LCM = 12

$\frac{2\times4}{3\times4} + \frac{3\times3}{4\times3} + \frac{5}{12}$

$\frac{8+9+5}{12}$

$\frac{22}{12}$ $\frac{11\times2}{6\times2}$ $= 1\frac{5}{6}$

5. Subtract:

a) $\frac{8}{9} - \frac{1}{3}$ $\times3$

$\frac{8-3}{9}$

$= \frac{5}{9}$

b) $6\frac{7}{8} - 4\frac{3}{8}$

$\frac{55}{8} - \frac{35}{8}$

$\frac{20}{8}$ $\frac{5\times4}{2\times4}$ $= 2\frac{1}{2}$

6. Check the divisibility of

a) 11718 by 9.

$1+1+7+1+8$

$= 18$

18 is divisible by 9

Yes

b) 103008 by 4

Last two digits (08) is divisible by 4,

Yes

7. Evalute and give your answer in simplest form.

a) $\frac{3}{14}+\frac{17}{21}+\frac{23}{42}$

$\frac{3\times3}{14\times3} + \frac{17\times2}{21\times2} + \frac{23}{42}$

$\frac{9+34+23}{42}$

$\frac{66}{42}\ \frac{11\times6}{2\times6} = 5\frac{1}{2}$

b) $\frac{25}{18}-\frac{4}{9}-\frac{2}{3}$

$\frac{25}{18} - \frac{4\times2}{9\times2} - \frac{2\times6}{3\times6}$

$\frac{25-8-12}{18}$

$\frac{5}{18}$

8. Arrange the following fraction in descending order.

a) $\frac{7}{14}, \frac{5}{21}, \frac{11}{3}, \frac{4}{7}$ $\frac{11}{3}, \frac{4}{7}, \frac{7}{14}, \frac{5}{11}$

b) $\frac{9}{21}, \frac{13}{21}, \frac{10}{21}, \frac{6}{21}$ $\frac{13}{21}, \frac{10}{21}, \frac{9}{21}, \frac{6}{21}$

9. Find the HCF of the following by long division method.

a) 217 and 686

$217\overline{)686}(3$
-651
$35\overline{)217}(6$
-210
$7\overline{)35}(5$
-35
00

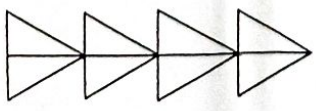
HCF = 7

b) 320 and 736

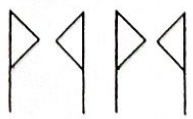
$320\overline{)736}(2$
-640
$96\overline{)320}(3$
-288
$32\overline{)96}(3$
-96
00

HCF = 32

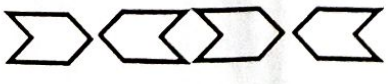
11. Name the transformation (translation or reflection) used to create the following border pattern.

a) 

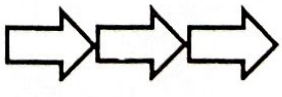
Translation

b) 

Reflection

c) 

Reflection

d) 

Translation.