SHREE VASISHTHA VIDHYALAYA
Maths Worksheet 2024-25

Name : -

Roll No. :-

Std.:- V -

Date : -

Worksheet No. Term-1-01

(L- 6 – Multiplication and Division of fractions and L- 17 – Patterns.)

Q-1 Choose the correct option.

1) The reciprocal of $\frac{2}{8}$ is _____.

    a) $\frac{1}{4}$ b) $\frac{8}{2}$ ✓   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) Which of the following is a square number?

    a) 36   b) 49   c) Both a and b ✓

4) The next number in the Sequence is 8, 88, 888 , _____

    a) 8888 ✓   b) 88   c) 888

5) What is the third triangular number?

    a) 6 ✓   b) 3   c) 10

Q-2 Fill in the blanks.

1) A whole number is a fraction with denominator __1__.

2) A _Square_ number is obtained by multiplying the number by itself.

3) A _triangular_ number is obtained when we add natural numbers consecutively.

4) A _tiling_ pattern is formed by the repetition of a single unit or shape, when repeated, fills the plane with no gaps and no overlaps.

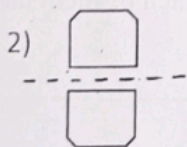5) Reciprocals are number pairs that have the product __1__.

Q-3 Choose whether the statement is True or False.

1) The reciprocal of 0 is not defined. _True_

2) $\frac{7}{10} \times 0 = \frac{7}{10}$. _False_

3) $\frac{1}{33} \times 1 = \frac{1}{33}$. _True_

4) Addition of first four natural numbers gives a triangular number. _True_

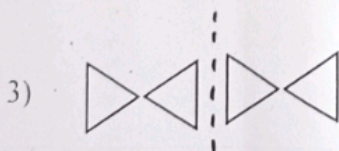5) When we add two consecutive odd numbers, we get a square number. _True_

Q-4 Name the transformation (translation or reflection) used to create the following border patterns.

1) _Translation_

2) _Reflection_

3) _Reflection_

Q-5 Match the following.

Column-A	Column-B	Ans:-
1) 1+ 3 + 5 = 9	a) 25	1- c
2) Third triangular number	b) $\frac{3}{5}$	2- e
3) Half of a half of 40	c) square number	3- d
4) $\frac{2}{3} \times \frac{9}{10}$	d) 10	4- b
5) 1, 4, 9, 16, ___ .	e) 6	5- a

Q-4 Solve the following.

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

$$\frac{1}{\cancel{12}} \times \cancel{7200}^{600}$$

$$= 600$$

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

$$35 \div \frac{7}{3}$$

$$\cancel{35}^{5} \times \frac{3}{\cancel{7}^{1}}$$

$$= 15$$

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

$$\frac{\cancel{3}^{1}}{\cancel{8}^{2}} \times \frac{\cancel{12}^{3}}{\cancel{21}^{7}}$$

$$= \frac{3}{14}$$

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

$$\frac{2}{\cancel{5}^{1}} \times \cancel{365}^{73} \text{ days}$$

$$= 146 \text{ days}$$

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

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

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

$$= \frac{2}{15}$$

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

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

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

$$= \frac{2}{9}$$

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

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

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

8) $35 \div \frac{7}{3} \times \frac{42}{15} \times \frac{3}{7} \times \frac{5}{36}$

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

$$= \frac{1}{6} .$$

Q-5 Story sums.

1) Shilpa has bought 3 kg of dry fruits. She wants to pack them in gift packs of $\frac{1}{4}$ kg each. How many gift packs will she be able to make?

Dry fruits = 3 kg.
1 pack = $\frac{1}{4}$ kg
No. of gifts packs can be made
$= 3 \div \frac{1}{4}$

$$= \frac{3}{1} \div \frac{1}{4}$$

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

$$= \frac{12}{1} = 12 \text{ packs.}$$

2) Rani made a chapatti. She ate half of it. She gave the other half to three puppies. Each of them ate $\frac{1}{3}$ of it. What fraction of the whole chapatti did each puppy eat?

Fraction of chapatti eaten by each puppy = $\frac{1}{3}$ of $\frac{1}{2}$

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

$$= \frac{1}{6} .$$