



Shree Vasishtha Vidhyalaya

Maths Worksheet 2026-27

Name : - _____

Std.:- V - _____

Roll No. :- _____

Worksheet -Term-1- 02

Date : - _____

(L-12 Symmetry and Patterns, L- 16 – Data Handling)

Q-1 Choose the correct option.

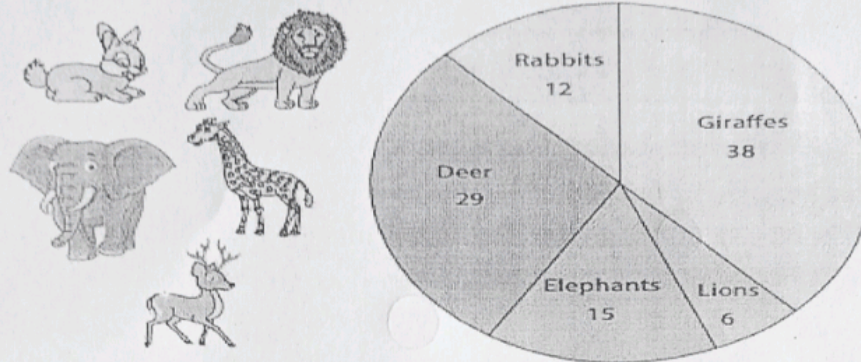
1. A shape is turned around a fixed point without changing its size or shape. What is this movement called?
A) Reflection ☒ B) Rotation C) Translation D) Enlargement
2. Which transformation produces a mirror image of a figure?
A) Rotation B) Translation ☒ C) Reflection D) Repetition
3. How many lines of symmetry does a square have?
A) 2 B) 3 ☒ C) 4 D) 5
4. What comes next in the pattern: ★, ●, ★, ●, ★, ____?
A) ★ ☒ B) ● C) ▲ D) ■
5. Why is a scale used on a graph?
A) To decorate the graph
☒ B) To represent data values accurately
C) To change the type of graph
D) To divide a pie chart
6. The complete circle in a pie chart represents:
A) 25% of the data C) 75% of the data
B) 50% of the data ☒ D) 100% of the data
7. Which graph is most useful for comparing two sets of data for the same categories?
A) Pie chart ☒ C) Double bar graph
B) Line graph D) Pictograph
8. In a tessellation, the shapes are generally arranged so that:
☒ A) There are no gaps or overlaps C) All shapes are circles
B) Every shape is separated D) Shapes must be placed randomly

Q-2 Choose whether the statement is True or False.

1. The horizontal line in a graph represents X axis. True
2. The information can be shown pictorially by a bar graph. True
3. A half rotation is 180° . True
4. The number sequence 1, 4, 9, 16, 25 represents square numbers. True
5. Rotational patterns only change position and always change shape. False
6. A circle has only four lines of symmetry. False
7. The total angles of all the sectors in a pie chart add up to 180 degrees. False
8. The gap between two bars must be same. True

Q-3 Ms. Riya surveyed the students in a school to find out their favourite animal.

The pie chart shows the results of the survey. Analyze and answer the questions.



Q.1 What fraction of students chose lion as their favourite animal? $\frac{6}{100}$

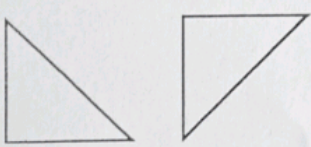
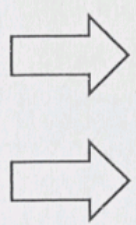
Q.2 Which animal was the most popular? Giraffe

Q.3 What is the difference of the fraction of students voted deer and elephant as their favourite animal? $\frac{29}{100} - \frac{15}{100} = \frac{14}{100}$

Q.4 Which two favourite animals among the students together make a fraction of $\frac{18}{100}$?
Rabbit and Lion.

Q.5 Name the animal that was second least popular among the students?
Rabbit

Q.4 Identify reflection, rotation or translation.

a) 	b) 	c) 	d) 
Rotation	Reflection	Translation	Reflection.

Q.5 Match the following.

Column A	Column B	Answers
1. Half turn	a) Does not tessellate	1- <u>e</u>
2. Regular pentagon	b) Tessellates	2- <u>a</u>
3. Regular Hexagon	c) 90°	3- <u>b</u>
4. Quarter turn	d) 270°	4- <u>c</u>
5. Three-fourth turn	e) 180°	5- <u>d</u>