

**SUMMATIVE ASSESSMENT – SECOND TERM****MATHEMATICS**

Std - VI

**Max. Marks: 100****Time: 2½ Hrs**

Name of the School:	Name of the Student:
Place:	Roll No.:

**I. Choose the best answer:****10 x 1 = 10**

1. Equivalent ratio for 5 : 7 is \_\_\_\_\_.  
a) 9 : 2      b) 10 : 14      c) 28 : 20      d) 14 : 10
2. Which one is not a Ratio?  
a)  $\frac{1}{2}$       b) 2 : 3      c)  $xy$       d) 2.14
3. 2000 : 1500 is equal to \_\_\_\_\_.  
a) 3 : 4      b) 4 : 3      c) 5 : 3      d) 3 : 5
4. The cost of 10 pencils is 120, then the cost of 5 pencils is \_\_\_\_\_ rupees.  
a) 50      b) 60      c) 40      d) 80
5. A triangle with three equal sides is called \_\_\_\_\_.  
a) Scalene triangle      b) Isosceles triangle      c) Equilateral triangle
6. \_\_\_\_\_ are the lines that meet at right angles. ((ie)  $90^\circ$ )  
a) Parallel lines      b) Perpendicular lines      c) Concurrent lines      d) Straight lines
7. Data collected directly from the source is called \_\_\_\_\_.  
a) Primary data      b) Secondary data      c) Tertiary data      d) Statistics data
8. Data collected from Internet, Newspaper, TV, etc is called \_\_\_\_\_ data.  
a) Primary      b) Secondary      c) Tertiary      d) Pictograph
9.  $\frac{12}{4} = \frac{x}{26}$ . The value of x is \_\_\_\_\_.  
a) 12      b) 36      c) 46      d) 56
10. The cost of 10 kg rice is 600 rupees. What is the cost of 20.5 kg of rice?  
a) ₹ 1320      b) ₹ 1230      c) ₹ 1260      d) ₹ 1200

**II. Fill in the blanks:****5 x 1 = 5**

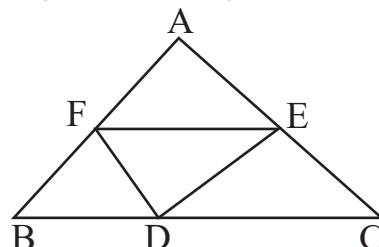
1. If  $a : b :: c : d$  then  $a \times d = _____$ .
2. 120 : 3600 is equal to \_\_\_\_\_.
3. Bermuda triangle is also called as \_\_\_\_\_ triangle.
4. \_\_\_\_\_ is the number of times a data is occurring in a set on survey
5.  $SP - CP = _____$ .

**III. Match the following:****5 x 1 = 5**

1. $22 + (3 + 8)$	–	351
2. LCM of 13, 27	–	33
3. Angle below $90^\circ$	–	Hypotenuse
4. Angle above $90^\circ$	–	Obtuse angle
5. Longest side of a Right triangle	–	Acute Angle

**IV. Do as Directed:****10 x 3 = 30**

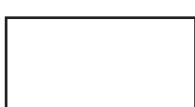
- Your school has 180 teachers and 3600 students. What is the ratio of teachers to students in your school?
- Two numbers are in the ratio 3:4. If the sum of the numbers is 63, Find the numbers.
- Find SP, if CP = 54000, Loss = 4000
- Define pascals triangle and give suitable example.
- Define symmetry with a suitable example.
- What is data handling?
- Count and name all the triangles in the figure.



- $34 : 25 :: 68 : y$ . Find the value of  $y$ .
- If you have 1 bench to 2 students in your class and the class strength is 40. How many benches would you need?
- Divide 450 kg of Rice between two persons in the ratio 4 : 5

**V. Answer the following (Any 10):****10 x 5 = 50**

- In a school of 4500 students, 2000 are boys and the remaining students are girls. Find the ratio of,
  - Boys to the total number of students in the school.
  - Girls to the total number of students in the school.
  - Boys to the girls in the school.
- Find the missing numbers.
  - $12 : 14 :: x : 42$
  - $100 : 225 :: 1000 : y$
  - $A : 36 :: 28 : 144$
  - $125 : x :: 500 : 1125$
- Name the triangle classified by lengths of the sides. and draw the necessary diagrams.
  - 4cm, 7cm, 4cm
  - 3.5cm, 3.5cm, 3.5cm
  - 4cm, 5cm, 7cm
- Draw the lines of symmetry for the following figures.



- Construct the line segments with given measurements using a compass.
  - $\overline{XY} = 6.5 \text{ cm}$
  - $\overline{AB} = 8.9 \text{ cm}$
- Answer the following questions using the information given below.

Game	No. of Students
Cricket	6 ☺
Football	3 ☺
Volleyball	5 ☺
Tennis	4 ☺
Basketbal	1 ☺
Key ☺ 15	Students

a) How many students does the key Represent? ☺  
 b) Which game do the students like the most?  
 c) How many students are there in all?  
 d) Which game is the least in all?

7. In a test, that Sudha wrote, the ratio of the right answers to the wrong answers that she got was 9:4. If she got 16 answers wrong, how many did she get right?

8. Find the profit or loss in each of the following:  
 a) CP = ₹ 150 ; SP = ₹ 135  
 b) CP = ₹ 4000 ; SP = ₹ 5000  
 c) CP = ₹ 375 ; SP = ₹ 325  
 d) CP = ₹ 15000 ; SP = ₹ 17250  
 e) CP = ₹ 375.50 ; SP = ₹ 365.50

9. Compare the following ratios and write in ascending order. 7 : 9, 3 : 4, 5 : 36

10. The temperature recorded on seven days of a month in a city is as follows:

Day	Mon	Tues	Wednes	Thurs	Fri	Sat	Sun
Temperature in degree Celsius	37	35	34	35	39	40	41

a) Which was the hottest day?  
 b) What is the difference between the highest and lowest temperature?  
 c) Which two days were equally hot?

11. Say true or false:  
 (i) A Ray has two end points  
 (ii) A segment has no length.  
 (iii) Two points determine a unique line segment.  
 (iv) Length of  $(\overline{AB})$  = length of  $(\overline{BA})$   
 (v) Two intersecting planes intersect at a point.