II Summative Assessment 2017-18

Mathematics

Std: VI **Marks : 40**

Date: 7/04/2018 **Time:**

Q.1 A]Choose the correct options:- **[5 marks]**

i) The money deposited in the bank or the money lent by a bank to a borrower is called the ____.

a) Amount b) Simple Interest c) Principal d) Rate of interest

ii) A trianglewithno sides equal is called a _____ triangle.

a) Acute Triangle b) Equilateral Triangle c) Obtuse Triangle d) Scalene Triangle

iii) Adjacent sides of the quadrilateral have a _____.

a) Sides b) Common vertex c) angle d) Common diagonal

iv) Closed figures with three or more than three sides are all called _____.

a) Pentagon b) polygon c) Quadrilateral d) Triangle

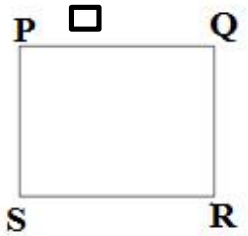
v) In ΔABC, $B\angle = 120°$, then ΔBC is_____ triangle.

a) Obtuse b) Acute c) Isosceles d) Right

B] Do as directed: **[5 marks]**

i) If simple interest is ₹ 1200 and amount is ₹6000. Find the principal.

ii) How many vertices and how many angles does a triangle have?



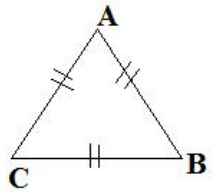
/ two pairs of adjacent angles.

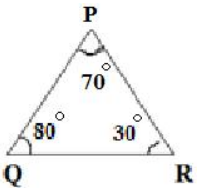
iv) Write number of sides of Heptagon and Hexagon.

v) What is sum of all angles of a quadrilateral?

Q.2 Solve(any 4) **[8 marks]**

i) Write the types of the triangles

A) 

B) 

ii) What will be interest on ₹ 5000 kept in a bank for a year at the rate of 10 p.c p.a.?

iii) In ▭ XYWZ, name theof opposite angles and opposite sides.

iv) The lengths of the sides of some triangles are given. State the types of triangle with reason.

a) 4.8 cm, 4.8 cm, 4.8 cm b) 3 cm, 4 cm, 5 cm.

v) Name the type of triangle

a) Triangle having an angle of 90°

b) Triangle having all sides equal

c) Triangle having one of the angle 135°

d) Triangle having all sides different in length

Q.3 Solve (any 3) **[9 marks]**

i) Draw a line m. Take a point P on the line. Using protractor draw a line perpendicular to line m at a point P.

ii) State with reason whether a triangle with given sides can be drawn

a) 15 cm, 20 cm,30 cm b) 9 cm, 6 cm, 16 cm

iii) Draw a line AB. Using a set square draw a line perpendicular to AB when point outside of the line.

iv) Find the amount if P = ₹ 1500 , Period(N) = 3 years , Rate of interest (R) = 4 p.c.p.a.

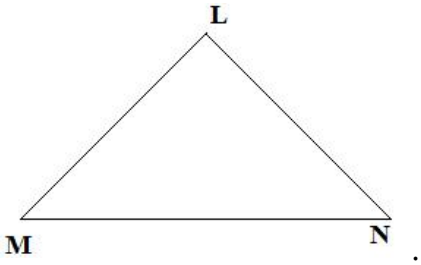
Q.4. Solve (any 2) **[8 marks]**

i) Draw a line AB. Take point M anywhere outside the line using compass and ruler. Draw a line MN perpendicular to the AB.

ii) a)Suresh took loan from a bank of ₹ 20,000 for 2 years at the rate of 8 p.c.p.a. How much interest he will pay to the bank?

b) Find rate of interest, if Principal = ₹15000 , Period = 2 years , Simple Interest = ₹ 1200.

iii)Measure the sides of triangles and based on the measurement state property of triangle



Q. 5 Solve (any 1) **[5 marks]**

i) Draw a line seg AB of length 6 cm. Bisect it using a compass and ruler.

ii) Draw a line PQ. Take point M on the line.Using compass and ruler draw perpendicular on line PQ.