

Maths = Meri Aatma Tumhe  
साधना देवी विद्यापीठ *hamaisha*  
*salaigi*

Punjabi Colony (Dharampur) Samastipur. 848101 (Bihar)  
Final Examination- 2019-20

Class :- VII  
Sub :- Maths

Time :- 2:30hrs  
F.M. :- 100

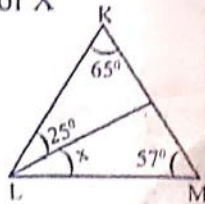
- Que. No. 1 carry 2 marks each. Que. No. 2 Carry 1 marks each.  
Que. No. 3 to 12 carry 4 marks each. Que. No. 13 to 20 carry 5 marks each.
1. Choose the correct option.
- (i) The complementary angle of  $37^\circ$  is  
(a)  $53^\circ$  (b)  $45^\circ$  (c)  $50^\circ$  (d)  $143^\circ$
  - (ii) Parallel lines are always  
(a) Equal (b) Coincident (c) Intersect (d) Equidistant
  - (iii) How many lines of symmetry are in a circle  
(a) 0 (b) 1 (c) 2 (d) Infinite
  - (iv) A triangular prism has ..... edge  
(a) 2 (b) 3 (c) 7 (d) 9
  - (v) In  $\triangle ABC$  the side included between  $\angle B$  and  $\angle C$  is  
(a) BC (b) AB (c) CA (d) None of these
  - (vi) The mean of first ten whole number is  
(a) 4 (b) 4.5 (c) 45 (d) 5
  - (vii) The probability of a sure event is  
(a) 0 (b) 1 (c) 0.5 (d) None of these
2. Fill in the blanks.
- (i) The triangle whose all side are equal is know as ..... triangle.
  - (ii) Two angles are congruent it they have .....
  - (iii) Two circles are congruent it they have .....
  - (iv) Two square are congruent it they have .....
  - (v) An exterior angle is equal to the sum of .....
  - (vi) A solid figures have ..... dimension.
3.  $\triangle ABC$  is an Isosceles triangle with  $AB = AC$  if  $\angle B = 40^\circ$ . What are the measure of  $\angle A$  and  $\angle C$ .
4. ABC is a triangle right angled at c. If  $AB=25\text{cm}$  and  $AC=7\text{cm}$ . Find BC
5. The perimeter of square is 64cm. Find its sides.
6. Find the perimeter of regular six sided polygon each side measuring 6.5cm.
7. Find the radius of a circle whose circumference is 66m.
8. Find the area of rhombus whose one side is 8cm and altitude is 0.6dm.
9. Find the base of triangle it area is  $25\text{cm}^2$  and height is 20cm.
10. It the mean of 6, 4, 7, P and 10 is 8, Find the value of P.
11. Find the median of the following data 3, 12, 6, 7, 8, 10, 11, 9, 8, 15.
12. What is the probability of choosing the letter "A" from the word 'AVERAGE'.
13. The adjacent sides of a parallelogram have lengths 20cm and 12cm. The distance between the two shorter sides is 5cm. Find the area of Parallelogram and distance between two longer side

14. A circular flower bed is surrounded by path 2m wide. The diameter of the flower bed is 32m. What is the area of path?

15. The perimeter of a triangle is 850m and its sides are in the ratio 6 : 7 : 4 find the lengths of sides.

16. A person went to 4m south and then 3m towards east. Find his distance from starting point to end point.

17. Find the value of X



$$\angle K + \angle L + \angle M = 180^\circ$$

$$\angle L = 25^\circ + X$$

$$65 + 25 + X + 57 = 180$$

18. Define :- (i) Trans versal (ii) Linear pair

19. Construct an equilateral triangle of side 6cm.

20. Draw a right angled triangle with hypotenuse of length 6.5cm and one side of length 5cm measure the other two angles.