



# ST. LAWRENCE HIGH SCHOOL



## TOPIC- Area and Perimeter

Sub: Mathematics

Class: 9

F. M. 15

WORK SHEET NO. -14

Date: 22. 4.2020

**Q.1) Choose the correct options: 1x15=15**

- i) If the Base is 1.5m and the altitude is 0.8m then the area of the triangle is  
a)6sqm b)12sqm c)1.2sqm d)0.6sqm
- ii) The base and height of a triangle are in the ratio 2:3 and it's area is 48sqcm. Then it's base and height is  
a)6 cm, 8cm b) 8cm, 6cm c) 10cm, 12cm d)8cm, 12cm
- iii) A rectangular field is 24m long and 15m wide. How many triangular flower beds each of base 3m and altitude 4m can be laid in this field?  
a) 50 b) 60 c) 80 d) 100
- iv) A right - angled triangle has the largest side as 13cm and one of the sides containing the right angle as 12 cm. Its area is \_\_\_\_\_sqcm.  
a) 10 b) 20 c) 25 d)30
- v) The area of a right angled triangle is 40 times its base then it's height is  
a) 45cm b) 60cm c) 80cm d) 20cm
- vi) In two triangles the ratio of their areas is 4:3 and that of their heights is 3:4. The ratio of their bases is  
a) 9:16 b) 9:8 c) 8:9 d) 16:9
- vii) The area of an equilateral triangle is x, its perimeter is y and its height is z. Then the value of  $(yz) / x$  is  
a)1 b)3 c)6 d)none
- viii) If the area of an equilateral triangle is  $4\sqrt{3}$ sqcm then its perimeter will be  
a)9cm b)10cm c)6cm d)12cm
- ix) G is the centroid of the equilateral triangle ABC. If  $AG=4\sqrt{3}$ cm then length of AB is  
a) 9cm b)11cm c)12 m d)13 cm
- x) The area of the triangle whose sides are 10cm, 8cm and 6cm will be  
a)48sqcm b)72sqcm c) 24sqcm d) 12sqcm.
- xi) If the area of an equilateral triangle is  $16\sqrt{3}$ sqcm then it's perimeter is  
a)22 cm b)20cm c)12cm d)24cm
- xii) A triangular board has the sides 6cm, 8cm and 10cm. The cost to paint the board at the rate 9 paise per sqcm is Rs \_\_\_\_\_.  
a)2.16 b)3.16 c)31. 6 d) 21.6.
- xiii) If the area of an equilateral triangle is  $9\sqrt{3}$ sqcm then the length of its side is  
a)6cm b)9cm c)8cm d) 7cm
- xiv) In triangle ABC,  $AB=AC=4$ cm and  $\angle A=90$  degree. The area of the triangle will be  
a)4sqcm b)5sqcm c)9sqcm d)8sqcm.
- xv) If each side of the equilateral triangle is doubled then its area increases by  $12\sqrt{3}$ sqm. The length of each side of the triangle is  
a)1m b)3m c)2m d)4m.

