



# ST. LAWRENCE HIGH SCHOOL



## TOPIC- Area and Perimeter

Sub: Mathematics

Class: 9

F. M. 15

WORK SHEET NO. -14

Solution

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  
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  
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?  
b) 60
- 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.  
d)30
- v) The area of a right angled triangle is 40 times its base then it's height is  
c) 80cm
- vi) In two triangles the ratio of their areas is4:3 and that of their heights is 3:4. The ratio of their bases is  
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  
c)6
- viii) If the area of an equilateral triangle is  $4\sqrt{3}$ sqcm then its perimeter will be  
d)12cm
- ix) G is the centroid of the equilateral triangle ABC. If  $AG=4\sqrt{3}$ cm then length of AB is  
c)12 m
- x) The area of the triangle whose sides are 10cm, 8cm and 6cm will be  
c) 24sqcm
- xi) If the area of an equilateral triangle is  $16\sqrt{3}$ sqcm then it's perimeter is  
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
- xiii) If the area of an equilateral triangle is  $9\sqrt{3}$ sqcm then the length of its side is  
a)6cm
- xiv) In triangle ABC,  $AB=AC=4$ cm and  $\angle A=90$  degree. The area of the triangle will be  
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  
d)4m.

