Hohete Tibeb Share Company
Education and Technology Team
Ethio-Parents' Schools: Addis Ababa (Gerji/Gullele) and Hawassa.
Work Sheet For Grade 10

1. Find the perimeter of the base of a right prism for which the area of the slant height is 240 sq. units and for which the altitude is 5 units.

2. What is the area of the lateral surface of a cube of edge 8cm? What is the area of its total surface area?
3. Aright prism on triangular base whose sides are 17cm, 10cm and 9cm, and high is 10cm.
   Find a) total surface area
   b) Volume
4. The base of right prism is a trapezium whose parallel sides are 17 cm and 13 cm the distance between them is 8cm if the high of the prism is 100cm. Find the volume
5. The diagonal of a cube is 8cm, then
   Find a) lateral surface area of the cube
   b) Volume of a cube .
6. The altitude of right hexagonal prism is 8 cm and the length of the edge of its bases is each 4 cm. Find the volume.
7. If the dimensions of right rectangular prism 4 cm 5 cm and 7cm then, find
   a) The length of a diagonal
   b) Volume
8. The altitude of right equilateral triangular pyramid is 8 cm If the edge of the base is 6 cm. Then
   Find a) total surface area and
   b) Volume
9. A regular square pyramid has all its edges 9cm long.
   Find its; a) Total surface area
   b) Volume

10. A frustum of height 6cm is formed from right circular cone of height 8cm and base radius 4cm

    Find a) cone

    b) Frustum

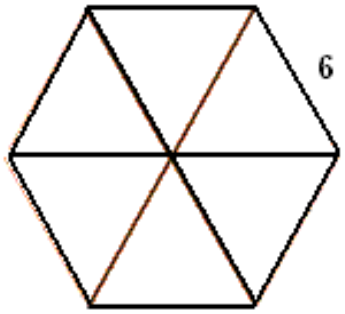
11. The lower base of a frustum of a regular square pyramid is a square side of 2 cm and the upper base has side length of 4cm if the slant height is 6cm.

    Then Find;

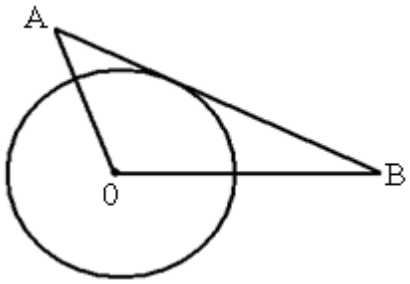
    a) Lateral surface area

    b) Volume

12. If you put 6 equilateral triangles together as shown below, you can make a regular hexagon. What is the area, in square units, of a regular hexagon of side length 6 units?



13. AB is tangent to the circle with center O and radius 10 cm. The length of OA is 15 cm and the length of OB is 20 cm. Find the area, in square cm, of triangle.



14. What is the height of building whose length of shadow is $20\sqrt{3}$ cm when the sum is 30^0 above the horizon?

15. A rectangular farm land has a perimeter of 82 meters and an area of 420 square meters. What is the length and width of the rectangle in meters?

16. If ΔABC is an equilateral triangle inscribed in a circle of one unit radius, then what is the area of ΔABC ?