



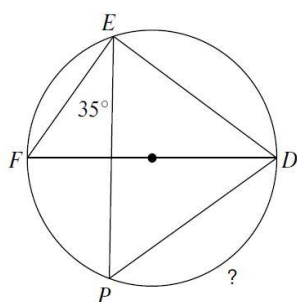
*Hohete Tibebe Share Company
Education and Technology Team
Ethio-Parents' Schools: Addis Ababa (Gerji/Gullele) and Hawassa.
Work Sheet For Grade 9*



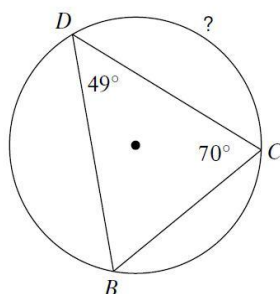
1. The distance from the center to the vertex of a regular pentagon is 9cm. if its apothem is 3cm, then find the area.
2. Find the perimeter of a regular hexagon whose radius is $3\frac{\sqrt{2}}{2}$ cm.
3. A side of a regular polygon of 6 sides measures 8cm. find the area of the polygon.
4. Find the area of a regular hexagon whose radius is $3\sqrt{2}$ cm.
5. Find the area of a square circumscribed about a circle of radius $2\sqrt{3}$.
6. Find the perimeter of a regular hexagon with the radius 5units.
7. Find the area of a triangle with apothem is 14cm and side length is $28\sqrt{3}$ cm.
8. Find the apothem of a 7-gon with the area 1602.3cm^2 and the side length is 21cm.
9. The areas of two parallelograms are equal and their altitudes are 6cm and 9cm.
If the base of the first parallelogram is 12cm, find the base of the second parallelogram.
10. The sides of two similar triangles are in the ratio 2:3, then their areas are in the ratio.
11. Triangles ABC and DEF are similar. If their areas are 100cm^2 and 49cm^2 respectively and BC is 8.2 cm then find EF .
12. The perimeters of two similar triangles are 24 cm and 18 cm respectively. If one side of the first triangle is 8 cm, then find corresponding side of the other triangle.

13. Find the measure of the arc or angle indicated.

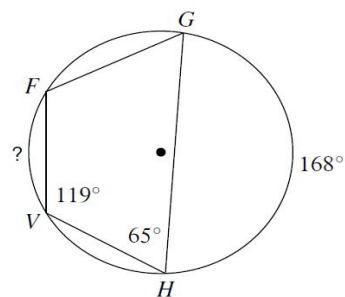
A.



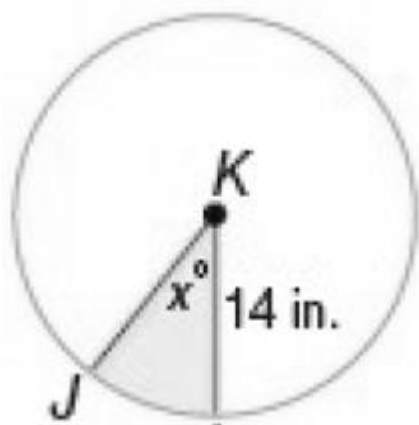
B.



C.



14. The area the shaded region is 72in^2 . Find x



15. Find the area and the arc length of the shaded region.

