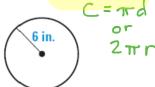
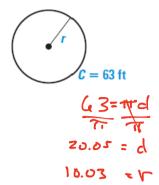
1. Find the circumference.



2. Find the circumference.

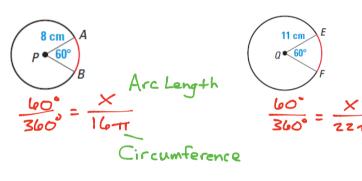


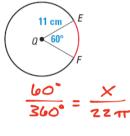
3. Find the radius.

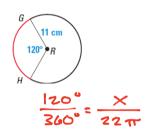


- 1.12π in.

4. Find the length of each indicated arc.





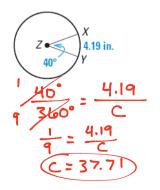


2.67 m cm or A.L. of
$$\widehat{AB} = 8.38$$
 cm

3.67
$$\pi$$
 cm or A.L. of $\widehat{EF} = 11.52$ cm

3.67
$$\pi$$
 cm or A.L. of $\widehat{EF} = 11.52$ cm A.L. of $\widehat{GH} = 23.04$ cm

5. Find circumference of $\odot Z$.



6. Find $m \angle RTS$.

$$\frac{15.28 \,\mathrm{m}}{7} S \qquad \frac{\times}{360^{\circ}} = \frac{44}{30.56 \,\mathrm{m}}$$

$$\frac{\times}{30.56 \,\mathrm{m}} \times = \frac{15840}{30.56 \,\mathrm{m}}$$

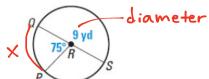
- 5. 37.71 in.
- 6. 6. 4.99

Find the indicated measure.

7. Arc Length of \overrightarrow{PQ} .



8. Circumference of $\bigcirc N$.



9. Radius of $\bigcirc G$.

$$\frac{75^{\circ}}{360^{\circ}} = \frac{\times}{9\pi}$$

$$5 = |26| > \frac{\pi d}{\pi} = \frac{25.2}{\pi}$$

$$C = 25.2 \qquad d = 8.02$$

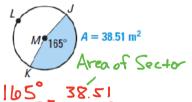
$$F = 4.01$$

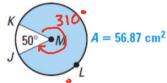
7. 5.89 vd. or 1.887 vd.

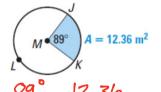
10. Find the radius.

11. Find the radius.

12. Find the radius.







$$\frac{310}{360^{\circ}} = \frac{56.87}{A}$$

$$165A = 13863.6$$
 $A = 84.02$
 $T = 26.7$
 $T = 5.17$

$$310A = 20473.2$$
 $A = 66.04$
 $r^2 = 21.02$
 $r = \sqrt{21.02}$

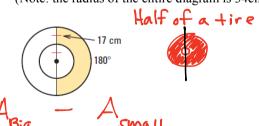
$$\frac{$9A}{89} = \frac{4449.6}{89}$$
 $A = 49.9955$
 $F^2 = 15.91$
 $F = \sqrt{15.91}$

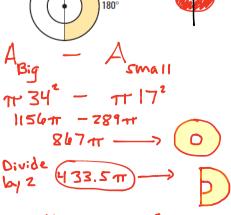
11. 4.58 cm

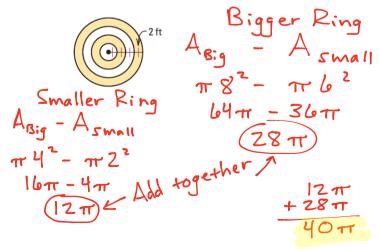
12.

13. Find the area of the shaded region.

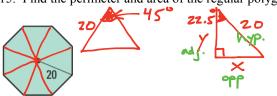
(Note: the radius of the entire diagram is 34cm)







15. Find the perimeter and area of the regular polygon.



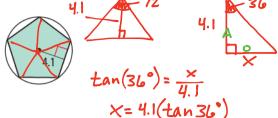
$$Sin(22.5^{\circ}) = \frac{x}{20}$$
 $Cos(22.5^{\circ}) = \frac{y}{20}$
 $x = 20(sin 22.5^{\circ})$ $y = 20(cos 22.5^{\circ})$

$$x = 20(sin 22.5^{\circ})$$
 $y = 20(cos 22.5^{\circ})$
 $x = 7.65$ $y = 18.48$

 $A_{\Delta} = (\frac{1}{2})(15.31)(18.48)$



16. Find the perimeter and area of the regular polygon.



$$A_{\Delta} = (\frac{1}{2})(5.96)(4.1)$$



17. A polyhedron has 8 vertices and 12 edges. How many faces does the polyhedron have?

$$F + V = E + Z$$

 $F + 8 = 12 + 2$
 $F + 8 = 14$

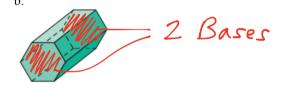


18. Name the solids shown below. Determine the number of faces, vertices, and edges.

a.

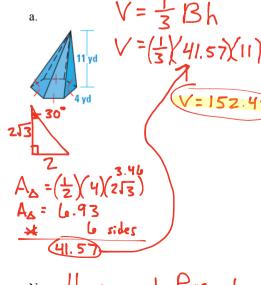




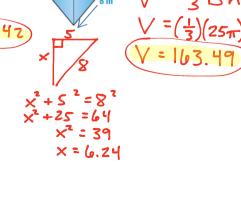


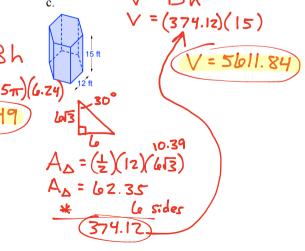
Hexagonal			\circ	
Name _	² rism	Faces	8	
Vertices	12	Edges	18	

19. Classify and find the volume of the solid.



Volume 152.42 vd.

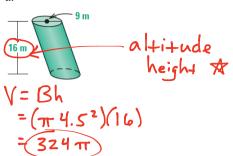


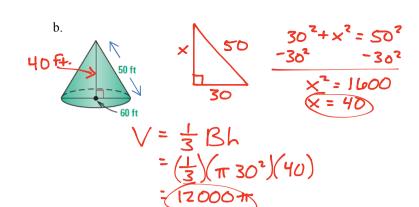


Name <u>Cone</u>
Volume <u>163.49 m³</u>
or 52 m ...³

Name Hexagonal Prism Volume 5611.84 ft.3 20. Classify and find the volume of the figure.

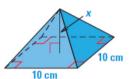






In problems 21 and 22 find the value of x.

21. Volume 5200 cm³ V= 18h

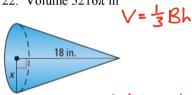


$$\frac{52\%\%}{10\%} = \frac{\left(\frac{1}{3}\right)(10\%)(\times)}{10\%}$$

$$\frac{3}{1} \cdot 52 = \left(\frac{11}{3}\right) \times \cdot \frac{3}{1}$$

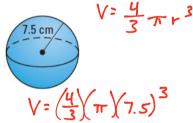
$$156 = \times$$

22. Volume
$$5216\pi \text{ in}^3$$



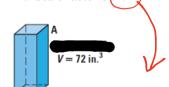
$$869.\overline{3} = X^{2}$$

$$x = 29.48 \text{ in}$$



$$x = 156 \, \mathrm{cm}$$

Solid A (shown) is similar to Solid B (not shown) with the given scale factor of A to B. Find the volume of Solid B. 24. Scale factor of 1:2 25. Scale factor of 3:1



$$\frac{1}{12} = \frac{72}{2}$$

A
$$V = 300 \, \pi \, \text{m}^3$$

$$\frac{27}{1} = \frac{300\pi}{\times}$$

26. Scale factor of 5:2)

