

Day 1: Area of Shapes

1) What does the area of a shape represent? _____

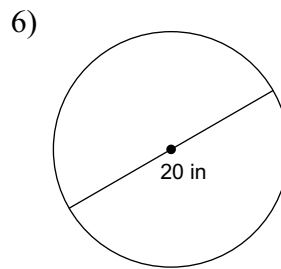
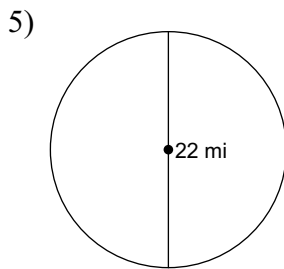
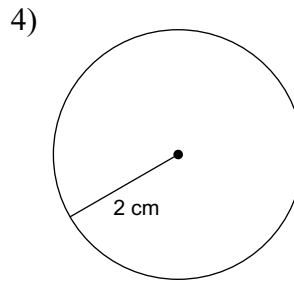
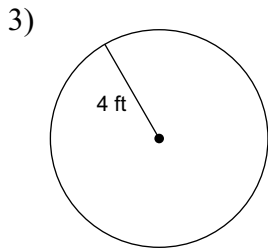
This means that our units, when finding area will always be _____

Finding the Area of Circles

2) We recently learned how to find the area of a circle... What is the equation for finding the area of a circle?

*Area of a Circle:

Find the area of each circle in EXACT and APPROXIMATE forms.



7) radius = 7 mi

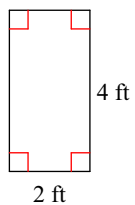
8) diameter = 4 in

Finding the Area of a Square or Rectangle

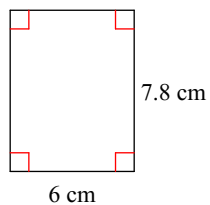
9) *Area of Square/Rectangle:

Find the area of each square or rectangle.

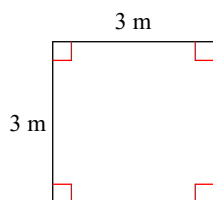
10)



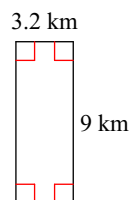
11)



12)



13)



Area of a Triangle

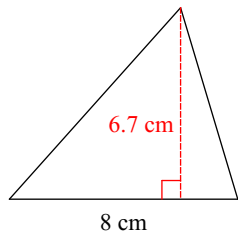
14) To find the area of a triangle, we must know the _____

and the _____, which may sometimes occur outside of the triangle.

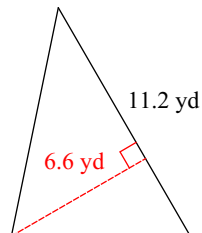
*Area of a Triangle:

Find the area of each triangle.

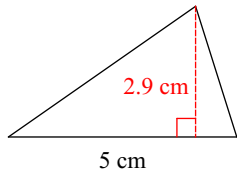
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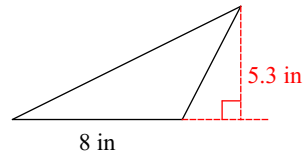
16)



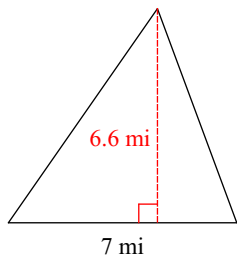
17)



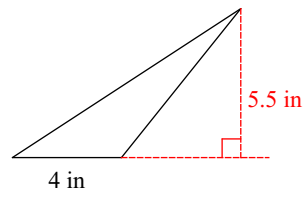
18)



19)



20)



Finding the Area of Polygons

21) A polygon is a _____.

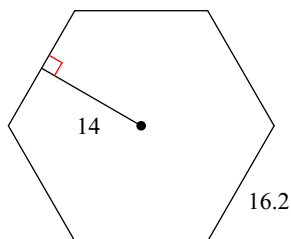
A regular polygon is a polygon that _____.

An polygon has what is called an _____. (This measurement is similar to the radius of a circle, it goes from the center of the shape to the edge at a 90 degree angle.)

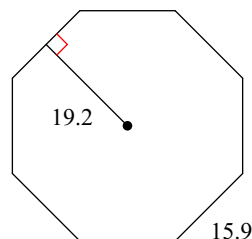
*Area of a Regular Polygon:

Find the area of each polygon. Round your answer to the nearest tenth, if necessary.

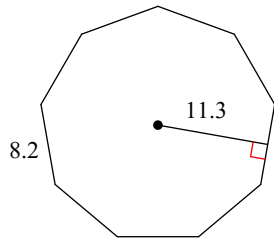
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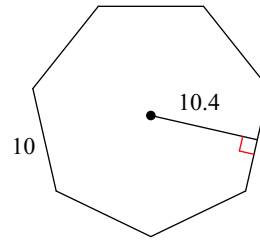
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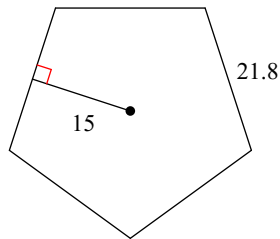
24)



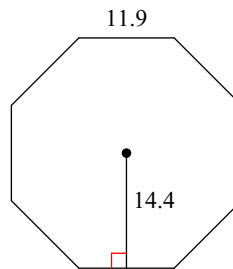
25)



26)



27)



28) nonagon (9 sides)
apothem is 7.5 cm
side is 5.5 cm

29) heptagon (7 sides)
apothem is 8.3 ft
side is 8 ft

30) hexagon (6 sides)
apothem is 10.4 mm
side is 12 mm

31) pentagon (5 sides)
apothem is 8.1 in
side is 11.8 in

32) hexagon (6 sides)
apothem is 9.5 yd
side is 11 yd

33) octagon (8 sides)
apothem is 22.5 in
side is 18.7 in