

HW
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8-16 even,
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Geometry

Chapter 1
Section 1-8

Vocabulary

| | |
|-----------|--|
| Perimeter | Sum of the lengths of the sides of a polygon |
|-----------|--|

| | |
|------|--|
| Area | The number of square units a plane figure encloses |
|------|--|

Common Formulas

Take note

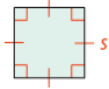
Key Concept Perimeter, Circumference, and Area

Square

side length s

$$P = 4s$$

$$A = s^2$$

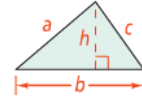


Triangle

side lengths a , b , and c ,
base b , and height h

$$P = a + b + c$$

$$A = \frac{1}{2}bh$$



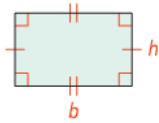
Rectangle

base b and height h

$$P = 2b + 2h, \text{ or}$$

$$2(b + h)$$

$$A = bh$$

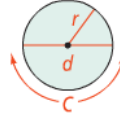


Circle

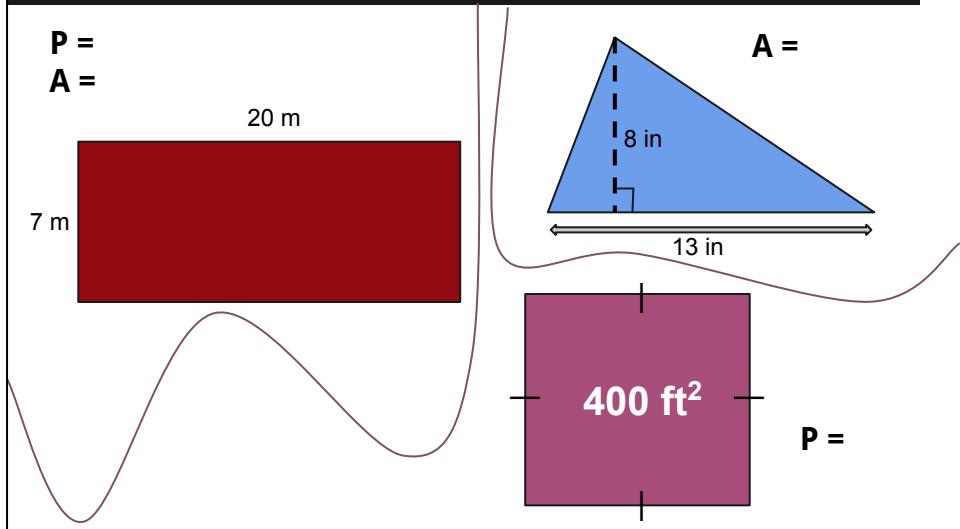
radius r and diameter d

$$C = \pi d, \text{ or } C = 2\pi r$$

$$A = \pi r^2$$



Formulas with Triangles, Rectangles and Squares

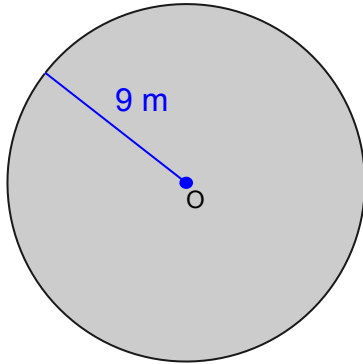


$$P=54m$$
$$A=140m^2$$

$$A=52 \text{ in}^2$$

$$P=80 \text{ ft}$$

Finding the Circumference and Area of a Circle



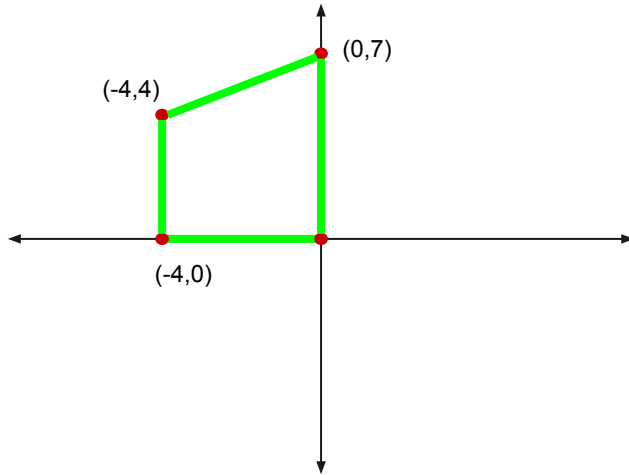
C=

A=

$$C=18\pi \text{ m approx. } 56.55 \text{ m}$$

$$A=81\pi \text{ m}^2 \text{ approx. } 254.47 \text{ m}^2$$

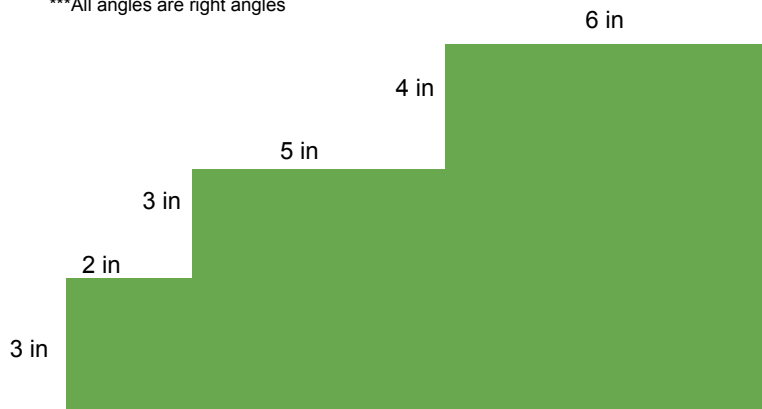
Perimeter and Area in the Coordinate Plane



$P = 20$ units
 $A = 22$ sq units

Area Addition

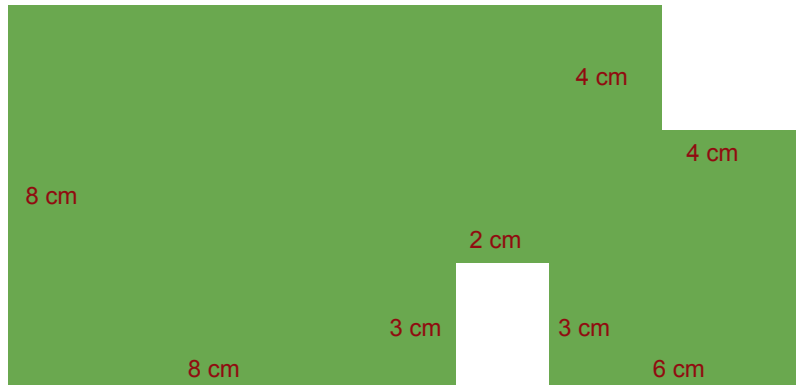
***All angles are right angles



$$A=96 \text{ sq in}$$

Area Addition

***All angles are right angles



$$A = 128 - 6 - 16 = 106 \text{ cm}^2$$

Homework

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