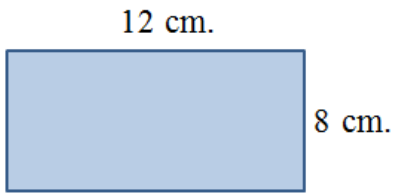


I can calculate the area and perimeter of basic shapes and composite shapes

Basic Area and Perimeter



F:

S:

S:

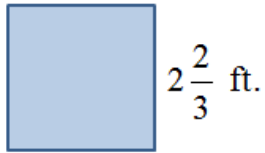
Area

Perimeter

F:

S:

S:



F:

S:

S:

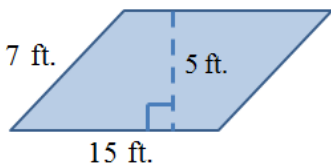
Area

Perimeter

F:

S:

S:



F:

S:

S:

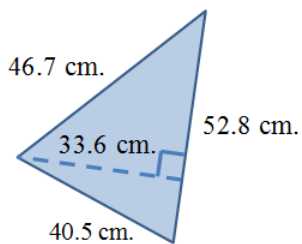
Area

Perimeter

F:

S:

S:



F:

S:

S:

Area

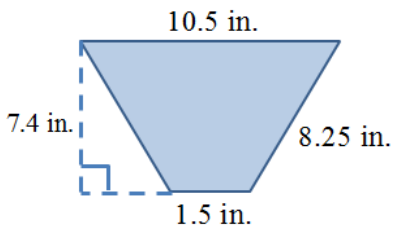
Perimeter

F:

S:

S:

Isosceles Trapezoid



F:

F:

S:

S:

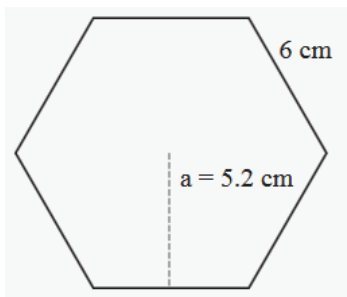
S:

S:

Area

Perimeter

Regular Hexagon



F:

F:

S:

S:

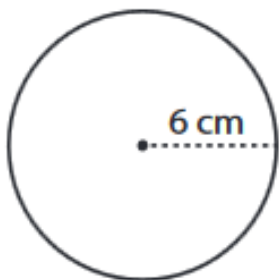
S:

S:

Area

Perimeter

Circles



F:

F:

S:

S:

S:

S:

Area In Terms of π

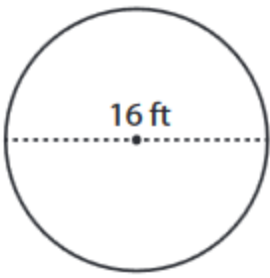
Circumference

Area To the Nearest Hundredth

S:

Area In Terms of π

Circumference



F:

F:

S:

S:

S:

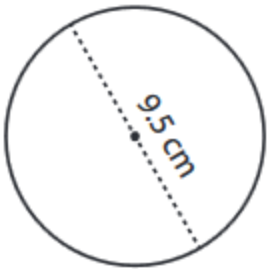
S:

**Area To the Nearest
Hundredth**

S:

Area In Terms of π

Circumference



F:

F:

S:

S:

S:

S:

**Area To the Nearest
Hundredth**

S:

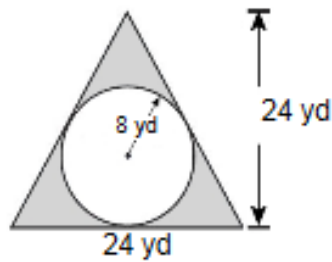
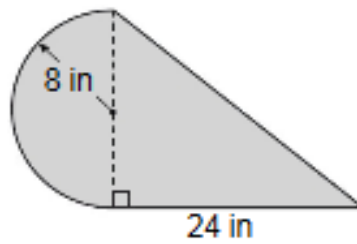
Find the radius of a circle if the **Area** is 49π ft².

Find the diameter of a circle if the **Area** is 81π cm²

Find the radius of a circle if the **Circumference** is 120π in².

Find the diameter of a circle if the **Circumference** is 34π yd²

Composite Shapes



I can calculate the area and perimeter of basic shapes and composite shapes

Basic Area and Perimeter

Rectangle

12 cm.

Area

Perimeter

F: $A = b \cdot h$

F: $P = \text{Add 4 sides}$

S: $A = 12 \cdot 8$

S: $P = 12 + 8 + 12 + 8$

S: $A = 96 \text{ cm}^2$

S: $P = 40 \text{ cm}$

Square

$2\frac{2}{3} \text{ ft}$

Area

Perimeter

F: $A = b \cdot h$

F: $P = \text{Add 4 sides}$

S: $A = 2\frac{2}{3} \cdot 2\frac{2}{3}$

S: $P = 2\frac{2}{3} + 2\frac{2}{3} + 2\frac{2}{3} + 2\frac{2}{3}$

S: $A = \frac{8}{3} \cdot \frac{8}{3}$

S: $P = \frac{8}{3} + \frac{8}{3} + \frac{8}{3} + \frac{8}{3}$

$A = \frac{64}{9} = 7\frac{1}{9} \text{ ft}^2$

$P = \frac{32}{3} = 10\frac{2}{3} \text{ ft}$

Area

Perimeter

F: $A = b \cdot h$

F: $P = \text{Add 4 sides}$

S: $A = 15 \cdot 5$

S: $P = 15 + 7 + 15 + 7$

S: $A = 75 \text{ ft}^2$

S: $P = 44 \text{ ft}$

Area

Perimeter

F: $A = \frac{b \cdot h}{2}$

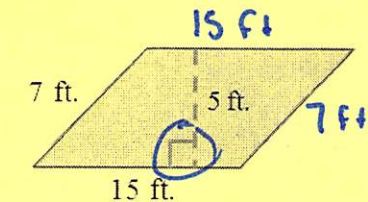
F: $P = \text{Add 3 sides}$

S: $A = \frac{52.8 \cdot 33.6}{2}$

S: $P = 46.7 + 52.8 + 40.5$

S: $A = 887.04 \text{ cm}^2$

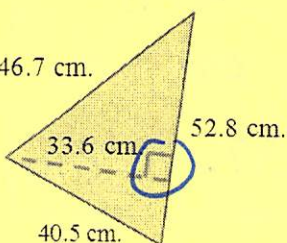
S: $P = 140 \text{ cm}$



46.7 cm.

52.8 cm.

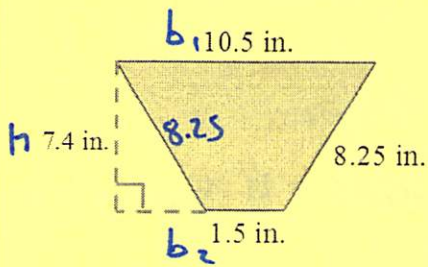
40.5 cm.



Isosceles Trapezoid

Area

Perimeter



F: $A = \frac{h \cdot (b_1 + b_2)}{2}$

F: $P = \text{Add 4 sides}$

S: $A = \frac{7.4(10.5 + 1.5)}{2}$

S: $P = 10.5 + 8.25 + 1.5 + 8.25$

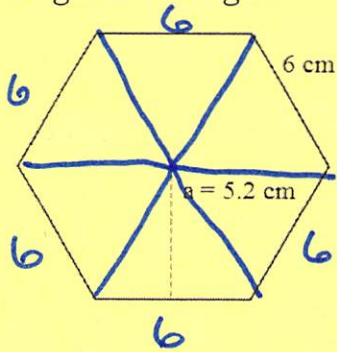
S: $A = 44.4 \text{ in}^2$

S: $P = 28.5 \text{ in}$

Regular Hexagon

Area

Perimeter



F: $A = \frac{b \cdot h}{2} \times 6 \Delta's$

F: $P = 6 \cdot \text{sides}$

S: $A = \frac{6 \cdot 5.2}{2} \times 6 \Delta's$

S: $P = 6 \cdot 6$

S: $A = 15.6 \times 6 \Delta's$

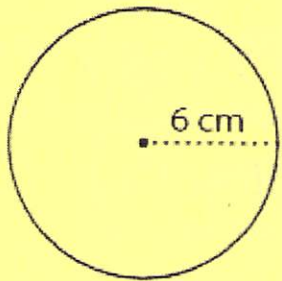
S: $P = 36 \text{ cm}$

S: $A = 93.6 \text{ cm}^2$

Circles

Area In Terms of π

Circumference



F: $A = \pi \cdot r^2$

F: $C = 2 \cdot \pi \cdot r$

S: $A = \pi \cdot 6^2$

S: $C = \pi \cdot d$

S: $A = 36\pi \text{ cm}^2$

S: $C = 2 \cdot \pi \cdot 6$

$r = 6 \text{ cm}$

$d = 12 \text{ cm}$

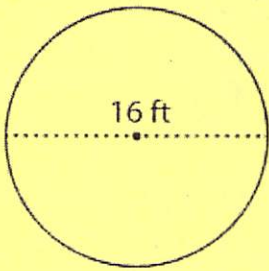
Area To the Nearest Hundredth

S: $A = 113.10 \text{ cm}^2$

S: $C = 12\pi$
or
 $C = 37.70 \text{ cm}$

Area In Terms of π

Circumference



$r = 8 \text{ ft}$

$d = 16 \text{ ft}$

F: $A = \pi \cdot r^2$

S: $A = \pi \cdot 8^2$

S: $A = 64\pi \text{ ft}^2$

F: $C = \pi \cdot d$

S: $C = 16\pi \text{ ft}$

or

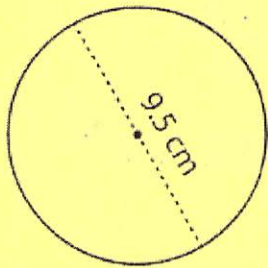
S: $C = 50.27 \text{ ft}$

Area To the Nearest Hundredth

S: $A = 201.06 \text{ ft}^2$

Area In Terms of π

Circumference



$r = 4.75 \text{ cm}$

$d = 9.5 \text{ cm}$

F: $A = \pi \cdot r^2$

S: $A = \pi (4.75)^2$

S: $A = 22.5625\pi \text{ cm}^2$

F: $C = \pi \cdot d$

S: $C = 9.5\pi \text{ cm}$

or

S: $C = 29.85 \text{ cm}$

Area To the Nearest Hundredth

S: $A = 70.88 \text{ cm}^2$

Find the radius of a circle if the **Area** is $49\pi \text{ ft}^2$.

$A = \pi r^2$

$49\pi = \pi r^2$

$7 \text{ ft} = r$

Find the diameter of a circle if the **Area** is $81\pi \text{ cm}^2$

$A = \pi r^2$

$81\pi = \pi r^2$

$9 \text{ ft} = r \rightarrow d = 18 \text{ ft}$

Find the radius of a circle if the **Circumference** is 120π in².

$$C = 2 \cdot \pi \cdot r$$

$$\frac{120\pi}{2} = \frac{2 \cdot \pi \cdot r}{2}$$

$$60 \text{ in} = r$$

Find the diameter of a circle if the **Circumference** is 34π yd²

$$C = 2 \cdot \pi \cdot r$$

$$\frac{34\pi}{2} = \frac{2 \cdot \pi \cdot r}{2}$$

$$17 = r$$

$$34 \text{ yd} = d$$

Composite Shapes

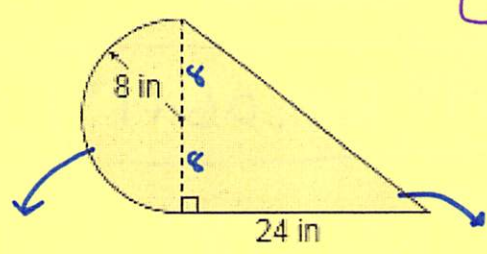
Semi-Circle
 $A = \pi r^2 \div 2$

$$A = \pi \cdot 8^2 \div 2$$

$$A = \pi \cdot 64 \div 2$$

$$A = 32\pi$$

$$= 100.53 \text{ in}^2$$



$$A = \frac{b \cdot h}{2}$$

$$A = \frac{24 \cdot 16}{2}$$

$$A = 192 \text{ in}^2$$

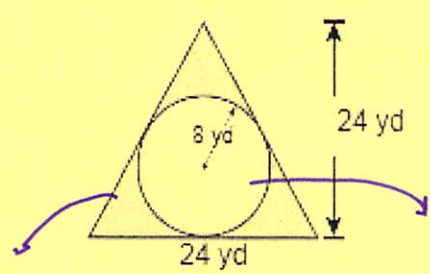
$$\text{Total Area}$$

$$292.53 \text{ in}^2$$

$$A = \frac{b \cdot h}{2}$$

$$A = \frac{24 \cdot 24}{2}$$

$$A = 288 \text{ yd}^2$$



Shaded Area = $\Delta - \circ$

$$A = \pi r^2$$

$$A = \pi \cdot 8^2$$

$$A = 201.06$$

$$\text{Shaded Area}$$

$$86.94 \text{ yd}^2$$