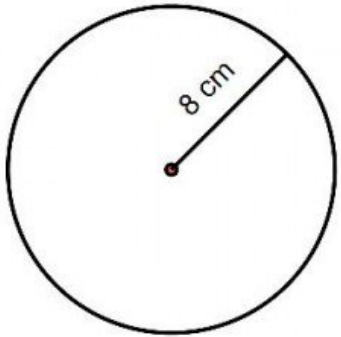


Area of Circle

Definition: The inside of the circle.

$$A = \pi \bullet r^2$$

EXAMPLES:



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

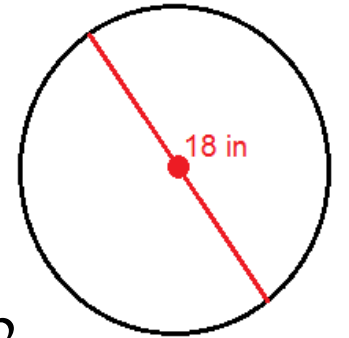
$$A = \pi \cdot (8)^2$$

$$A = 201.1 \text{ cm}^2$$

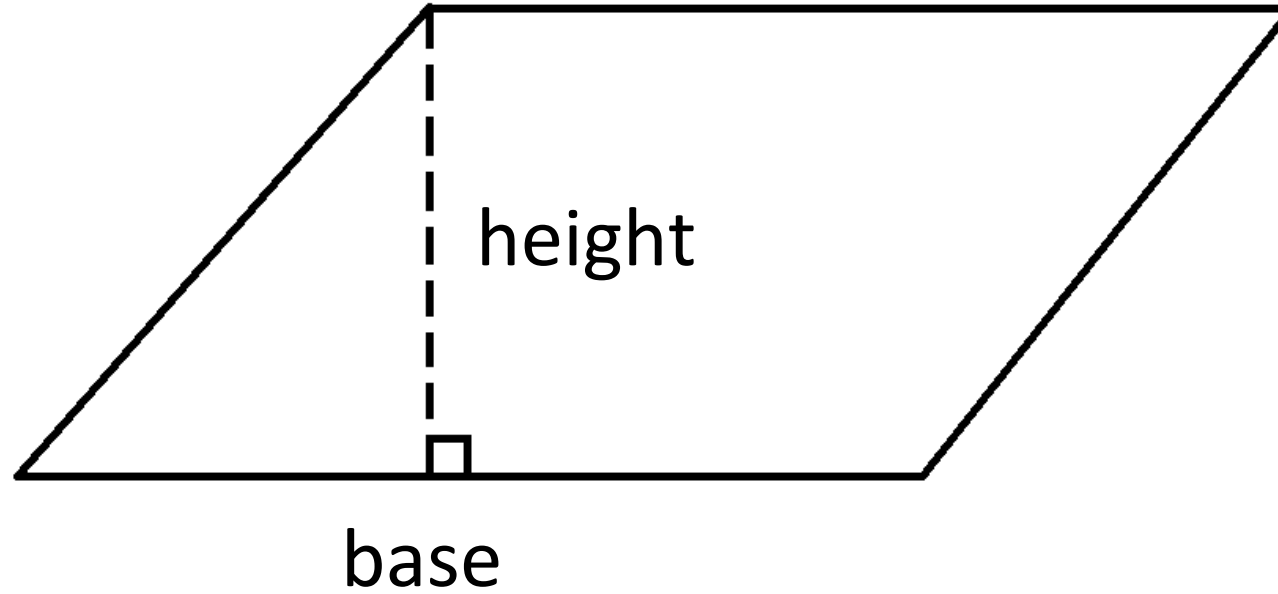
$$A = \pi \cdot r^2$$

$$A = \pi \cdot (9)^2$$

$$A = 254.5 \text{ in}^2$$



Area of a Parallelogram



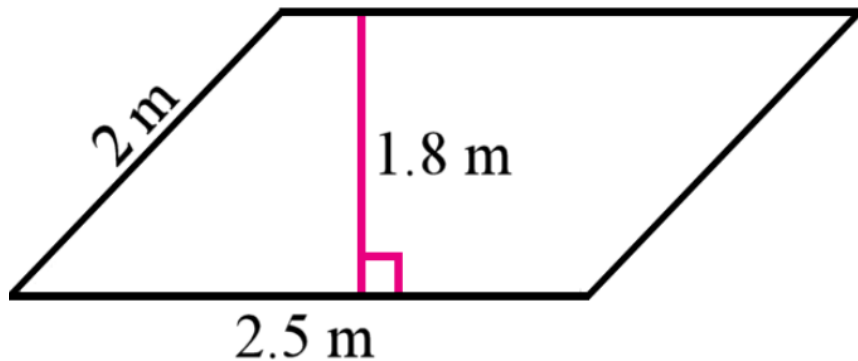
$$A = b \bullet h$$

EXAMPLES:

$$A = b \bullet h$$

$$A = 2.5 \bullet 1.8$$

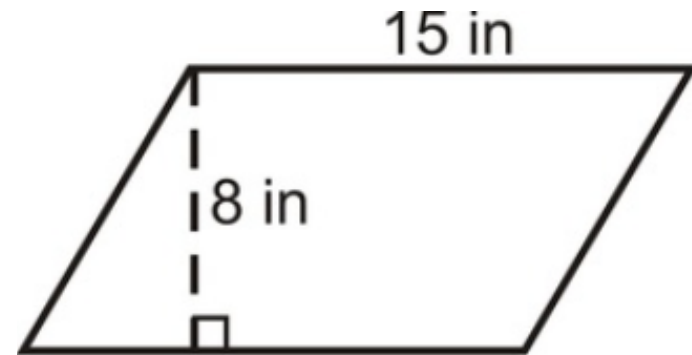
$$A = 4.5 \text{ m}^2$$



$$A = b \bullet h$$

$$A = 15 \bullet 8$$

$$A = 120 \text{ in}^2$$



Area of a Rectangle



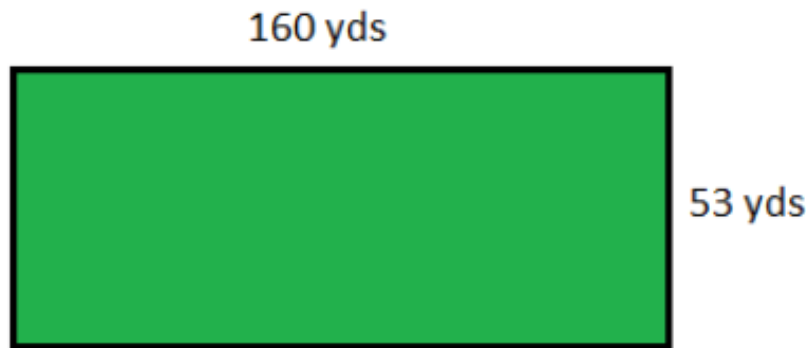
$$A = l \cdot w$$

EXAMPLES:

$$A = l \cdot w$$

$$A = 160 \cdot 53$$

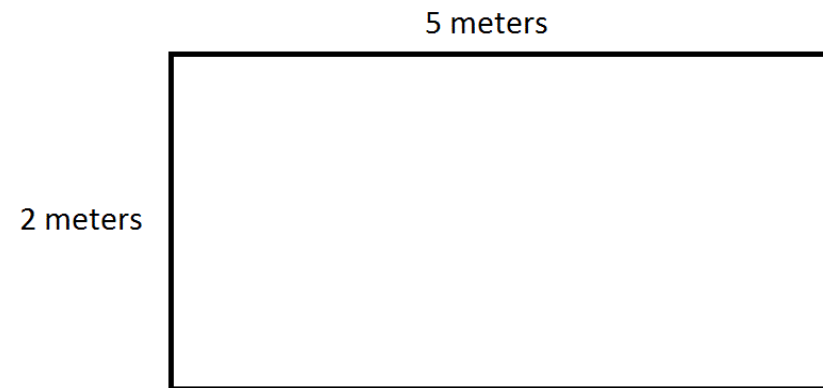
$$A = 8480 \text{ yd}^2$$



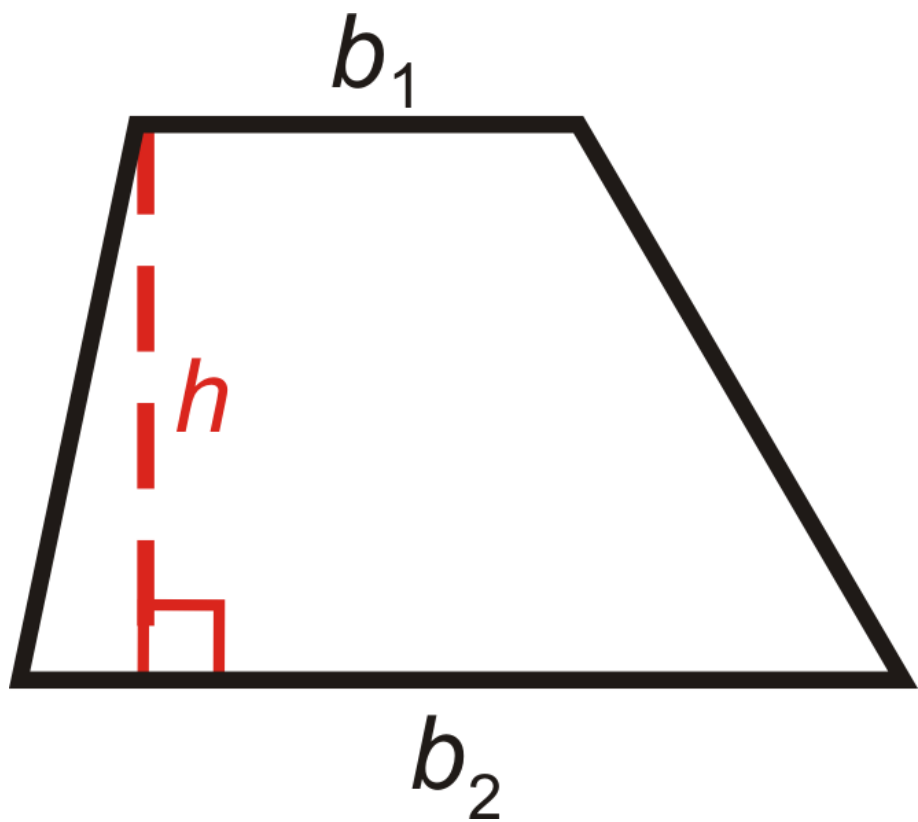
$$A = l \cdot w$$

$$A = 5 \cdot 2$$

$$A = 10 \text{ m}^2$$



Area of a Trapezoid



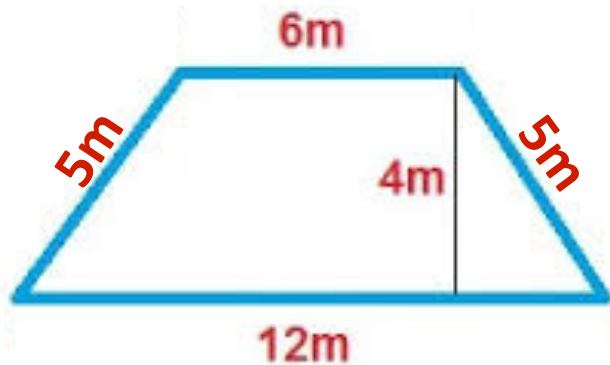
$$A = \frac{(b_1 + b_2) \cdot h}{2}$$

EXAMPLES:

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

$$A = \frac{(6 + 12) \cdot 4}{2}$$

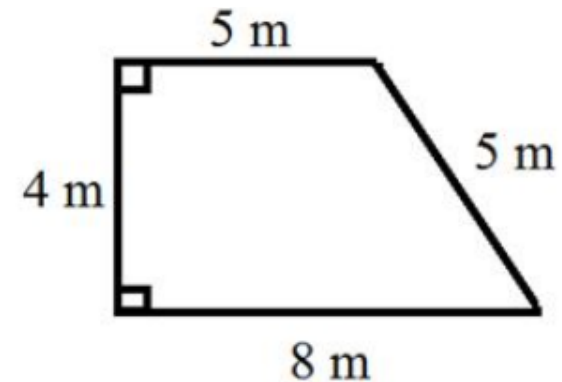
$$A = 36 \text{ m}^2$$



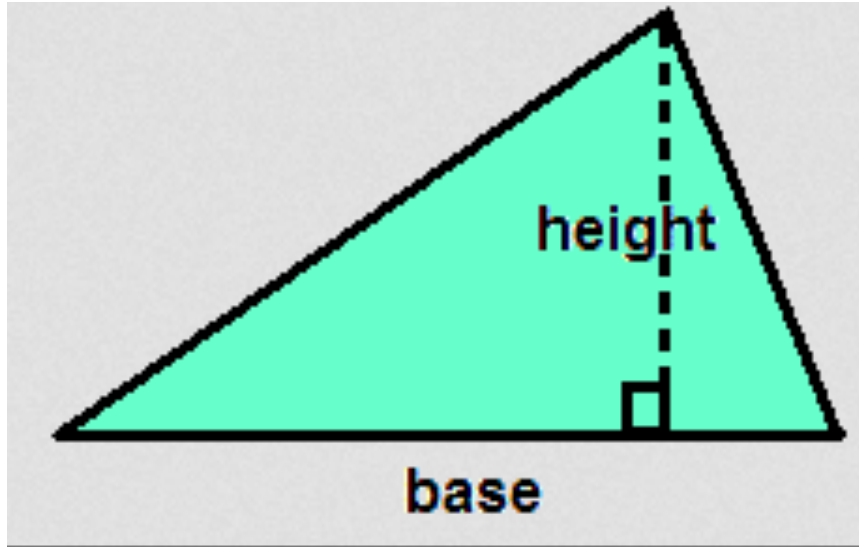
$$A = \frac{(b_1 + b_2) \cdot h}{2}$$

$$A = \frac{(5 + 8) \cdot 4}{2}$$

$$A = 26 \text{ m}^2$$



Area of a Triangle



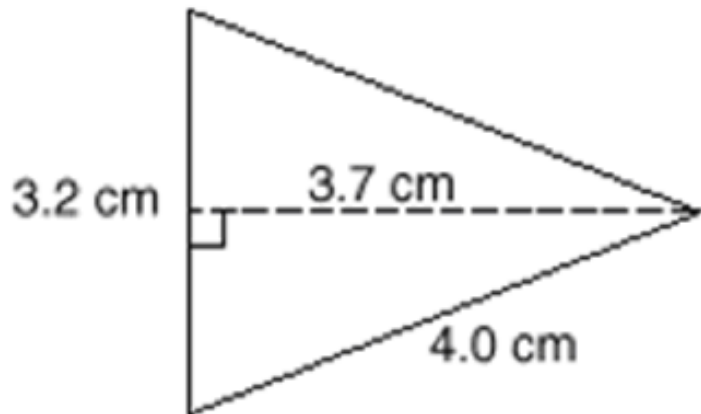
$$A = \frac{b \bullet h}{2}$$

EXAMPLES:

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

$$A = \frac{3.2 \cdot 3.7}{2}$$

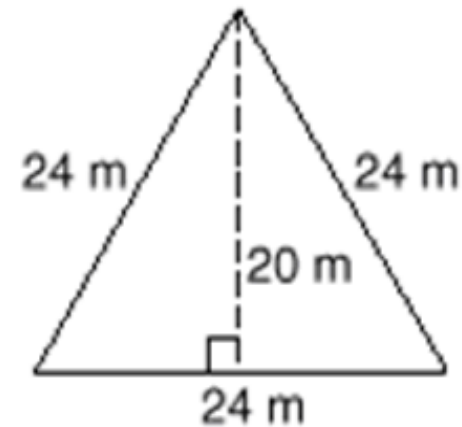
$$A = 5.92 \text{ cm}^2$$



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

$$A = \frac{24 \cdot 20}{2}$$

$$A = 240 \text{ m}^2$$



Circumference of a Circle

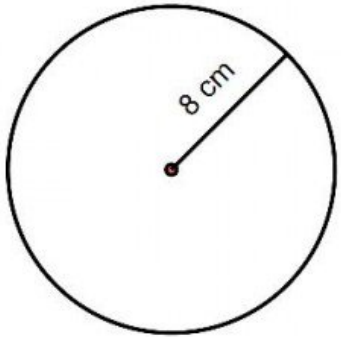
Definition:

The distance around
the circle

$$C = \pi \cdot d \quad \text{OR} \quad C = 2 \cdot \pi \cdot r$$

EXAMPLES:

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



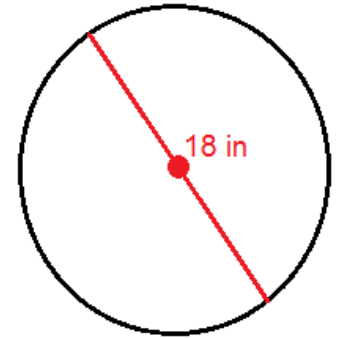
$$C = 2 \cdot \pi \cdot 8$$

$$C = 50.3 \text{ cm}$$

b. $C = \pi \cdot d$

$$C = \pi \cdot 18$$

$$C = 56.5 \text{ cm}$$

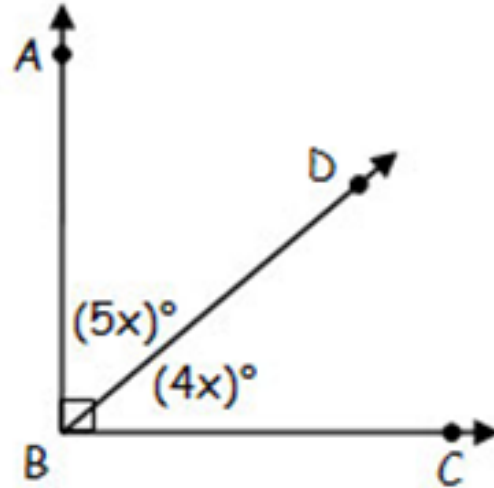
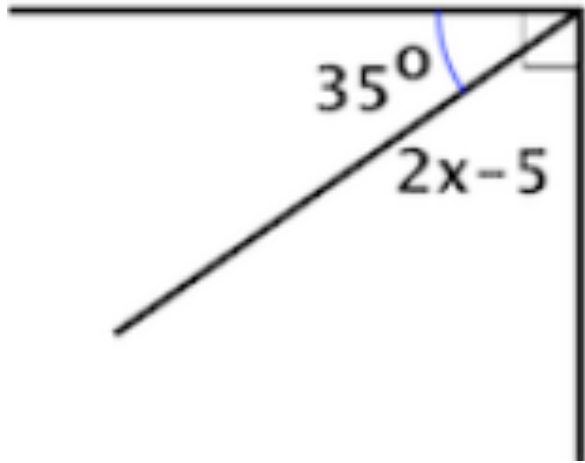


Complementary Angle

Definition:

Two or more angles
that add up to 90°

Solve for the variable.



Constant Rate
of Change
(C.R.O.C.)

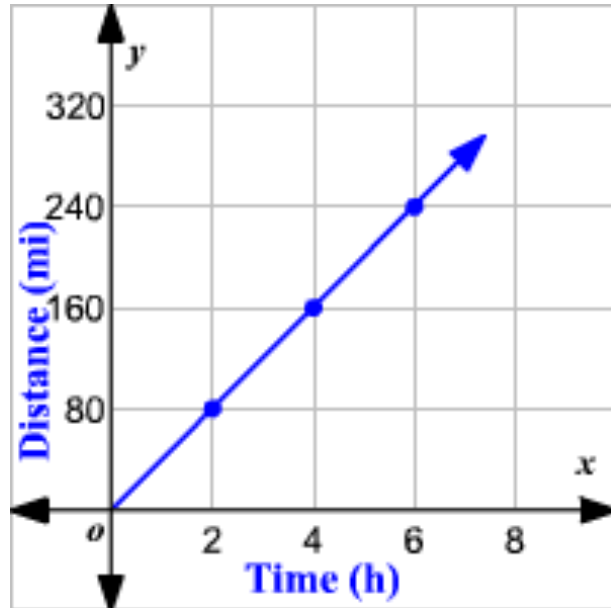
Definition:

It is a constant increase or decrease between two data points. Rates of change can be positive or negative.

A constant rate of change can be found in a table, graph or equation.

Example #1:

This graph shows travel time.



This graph does show a C.R.O.C.

$$C.R.O.C = \frac{\$80}{2 \text{ hours}} \text{ or } \frac{\$40}{1 \text{ hour}}$$

Example #2:

This table shows the amount of water drained from a pool.

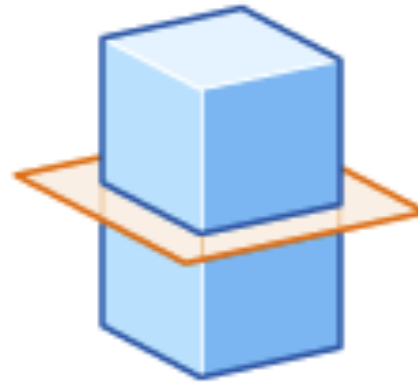
Time (hr)	Water (gal)
2	51.2
4	46.4
6	41.6
8	36.8
10	32

Cross Section

Definition:

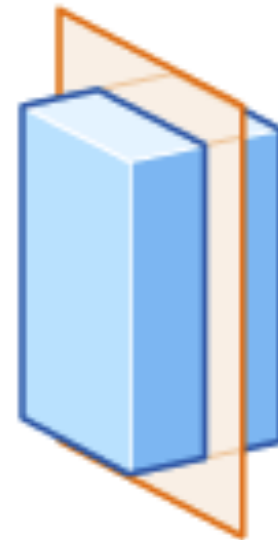
The 2-Dimensional shape
that results from slicing a
3-Dimensional shape

This square-based pyramid is sliced horizontally (parallel to the base) and the cross section (2-D shape formed from the slice) is a SQUARE



This rectangular pyramid is sliced horizontally (parallel to the base) and the cross section (2-D shape formed from the slice) is a RECTANGLE

This square-based pyramid is sliced vertically (perpendicular to the base) and the cross section (2-D shape formed from the slice) is a TRIANGLE



This rectangular pyramid is sliced vertically (perpendicular to the base) and the cross section (2-D shape formed from the slice) is a RECTANGLE

Diameter

Definition:

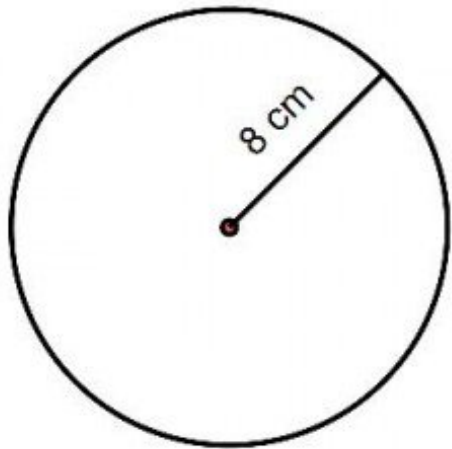
The distance across
the circle.

EXAMPLES:

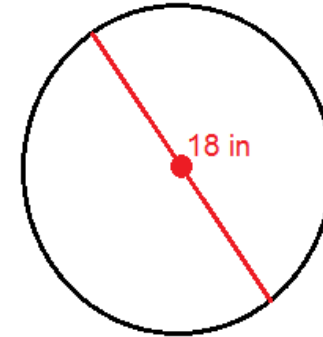
the radius is 8 cm

multiply 8 cm by 2

so the diameter is 16 cm



diameter is 18 in

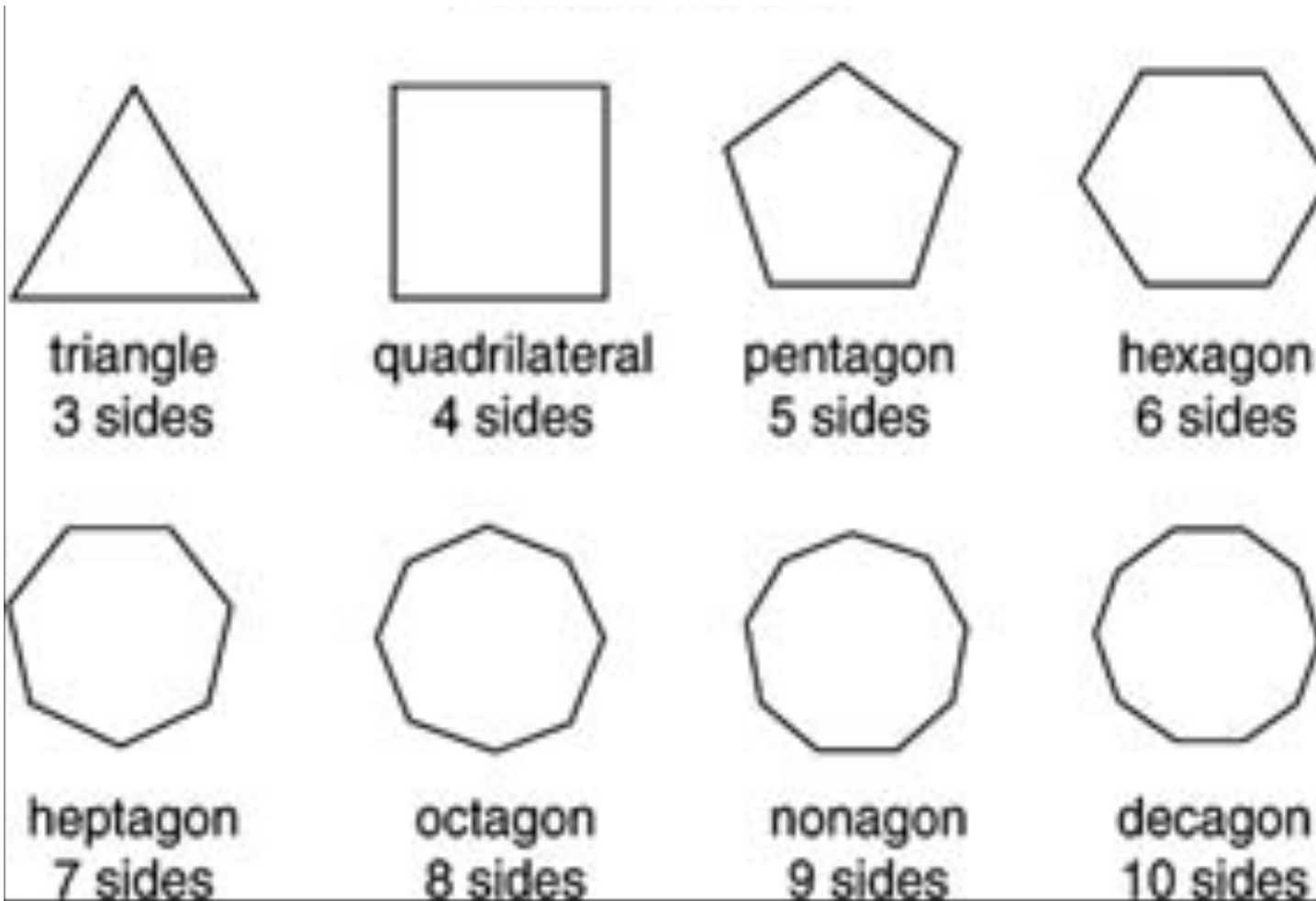


Polygon

Definition:

A closed shape with at least three sides.

EXAMPLES:



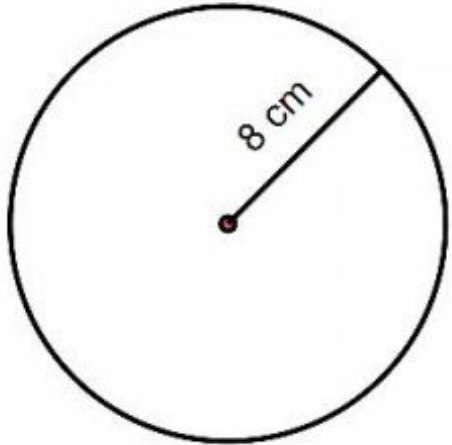
Radius

Definition:

The distance from the
center to the outside edge.

EXAMPLES:

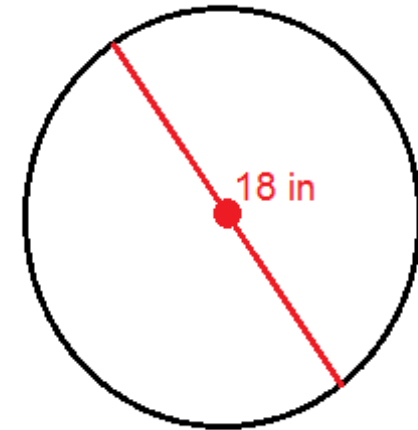
the radius is 8 cm



diameter is 18 in

so we divide it by 2

the radius is 9 in

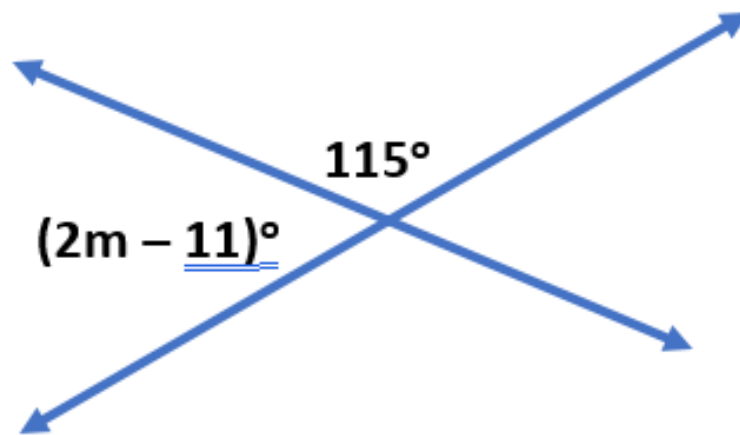
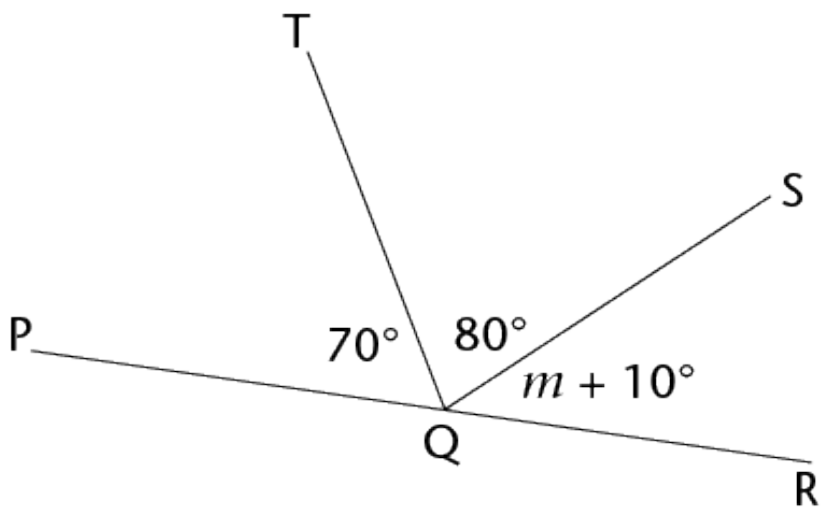


Supplementary Angles

Definition:

Two or more angles
that add up to 180°

EXAMPLES:

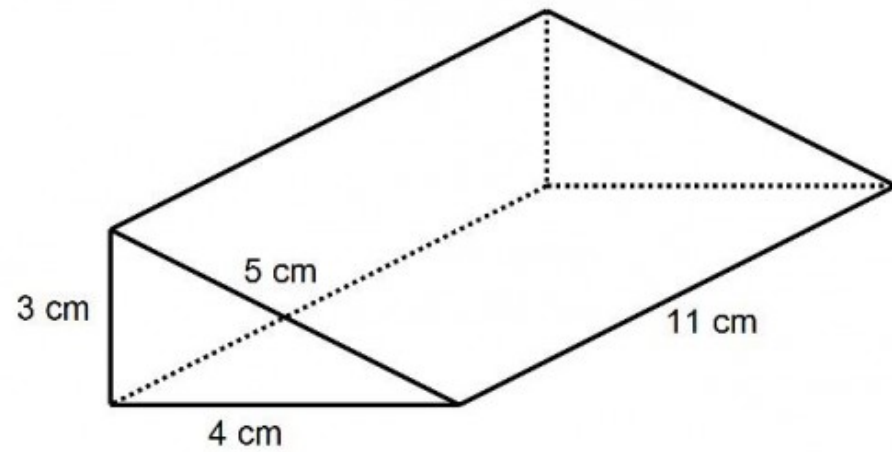
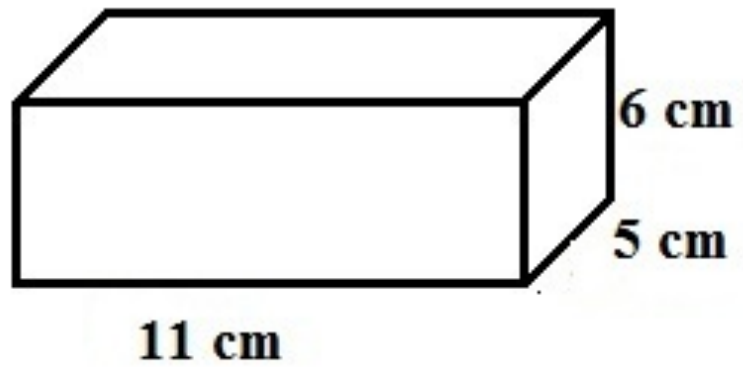


Surface Area

Definition:

The total area of the surface
of a 3-Dimensional object.

EXAMPLES:



Unit Rate

Definition:

The comparison of two different things AND the denominator is 1.

EXAMPLES:

$$\frac{\$15}{1 \text{ hour}}$$

$$\frac{\$78}{6 \text{ hours}}$$

Volume

Definition:

The total space inside a
3-Dimensional object.

EXAMPLES:

