

Area & Perimeter of a Rectangle:

# Rectangle



Area of a Rectangle: \_\_\_\_\_

Perimeter of a Rectangle: \_\_\_\_\_

Throughout this unit, you will see the terms \_\_\_\_\_ and \_\_\_\_\_ frequently. It is very important that you remember:

Base (b) and height (h) are always \_\_\_\_\_!

The units for area are always \_\_\_\_\_; the units for perimeter are not.

Examples:

Units for Area: \_\_\_\_\_

Units for Perimeter: \_\_\_\_\_

Ex1.

Find the height, area, and perimeter of the rectangle.

h = \_\_\_\_\_

A = \_\_\_\_\_

P = \_\_\_\_\_

Ex2.

Given:  
A = 56, b = 8

Find height and perimeter.

P = \_\_\_\_\_

Ex3.

Given:  
P = 38ft, h = 5ft

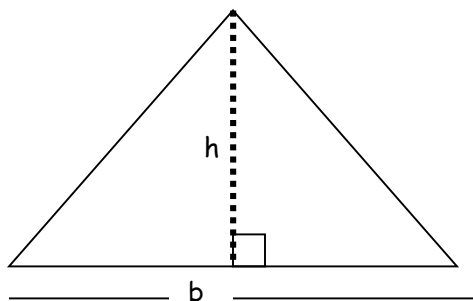
Find base and area.

b = \_\_\_\_\_

A = \_\_\_\_\_

Area & Perimeter of a Triangle:

# Triangle

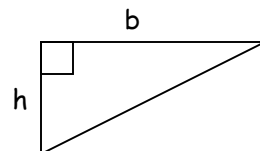


Area of a Triangle: \_\_\_\_\_

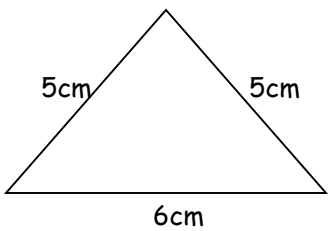
Perimeter of a Triangle → Add up all of the side lengths!

Note: In a right triangle, the base and height are the legs of the triangle. (Because the legs of the triangle are perpendicular.)

Base (b) and height (h) are always \_\_\_\_\_!



Ex1. Find the area and perimeter.

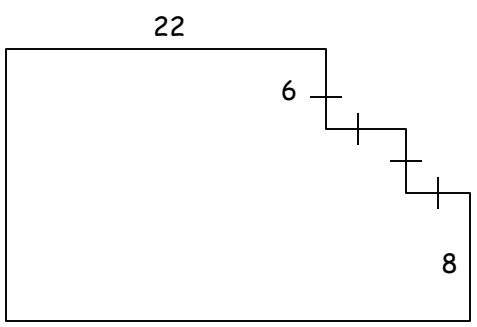


h = \_\_\_\_\_  
 A = \_\_\_\_\_  
 P = \_\_\_\_\_

Ex2. Find the area and perimeter of a triangle with sides 6, 8, and 10 cm.

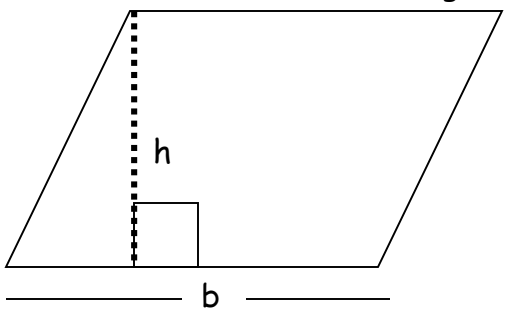
A = \_\_\_\_\_  
 P = \_\_\_\_\_

Area & Perimeter of Irregular Figures:



Area: Break into small shapes  
 Perimeter: Sum up side measures

Area & Perimeter of a Parallelogram:

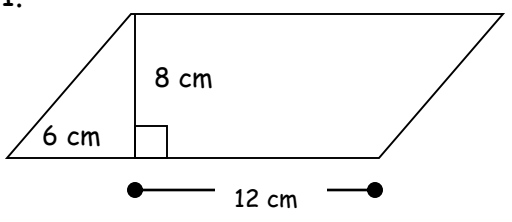


# Parallelogram

Area: \_\_\_\_\_

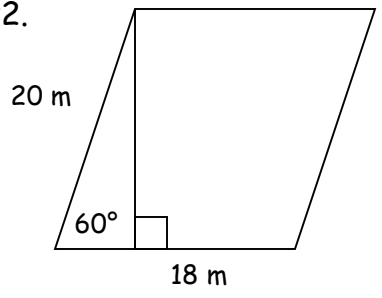
Base (b) and height (h) are always \_\_\_\_\_!

Ex1.



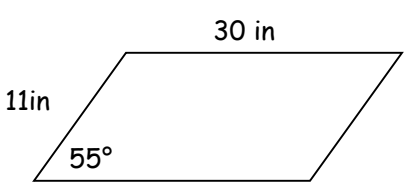
Area: \_\_\_\_\_  
 Perimeter: \_\_\_\_\_

Ex2.



Area: \_\_\_\_\_  
 Perimeter: \_\_\_\_\_

Ex3.



Area: \_\_\_\_\_  
 Perimeter: \_\_\_\_\_

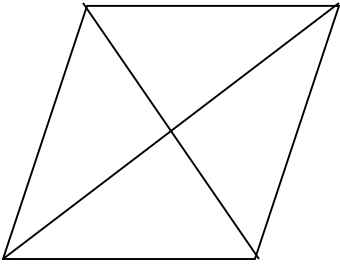
Area & Perimeter of a Rhombus:

# Rhombus

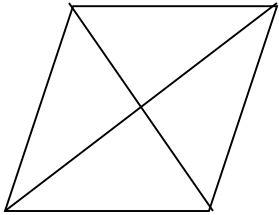
Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Note: You can also calculate the area of a rhombus using the parallelogram formula.



Ex1.

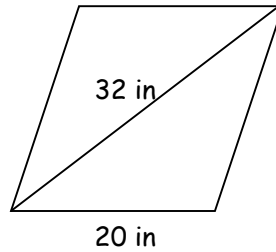


$d_1 = 24$  ft  
 $d_2 = 18$  ft

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Ex2.



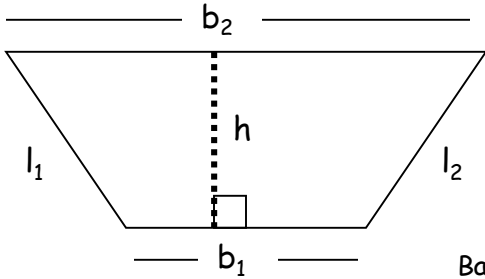
Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Area & Perimeter of a Trapezoid:

# Trapezoids

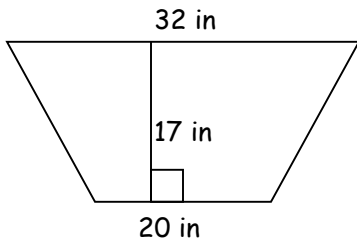
Area: \_\_\_\_\_



The bases ( $b_1$  and  $b_2$ ) of a trapezoid are always \_\_\_\_\_.

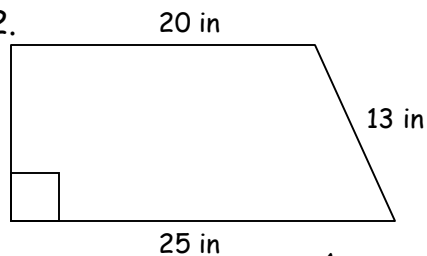
Base ( $b$ ) and height ( $h$ ) are always \_\_\_\_\_!

Ex1.



Area: \_\_\_\_\_

Ex2.



Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Recall: The \_\_\_\_\_ of a trapezoid is a segment that connects the midpoints of the two \_\_\_\_\_ of the trapezoid.

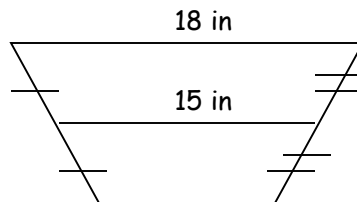
The formula for finding the \_\_\_\_\_ is:



An alternative formula for area of a trapezoid is:

$A = \text{_____} \times \text{height}$

Ex3.



Height = 10 in

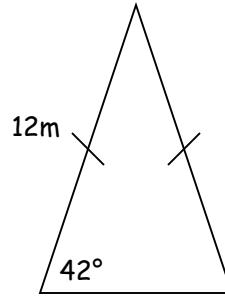
Area: \_\_\_\_\_

Ex1. Find the area and perimeter of a rectangle with a base of 12cm and a diagonal length of 13cm.

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

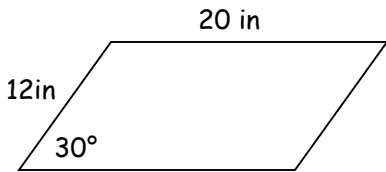
Ex2. Find the area and perimeter of the triangle shown below.



Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

Ex3. Find the area and perimeter of the parallelogram shown below.



Area: \_\_\_\_\_

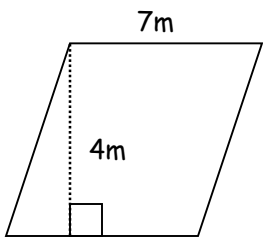
Perimeter: \_\_\_\_\_

Ex4. Find the area and perimeter of the rhombus with diagonal lengths 12mm and 16mm.

Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

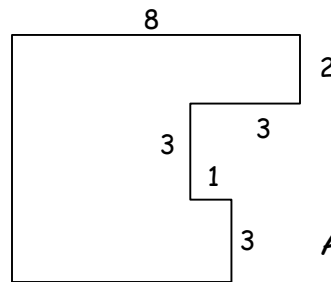
Ex5. Find the area and perimeter of the rhombus shown below.



Area: \_\_\_\_\_

Perimeter: \_\_\_\_\_

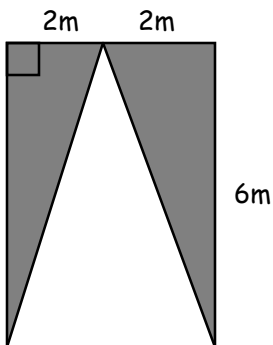
Ex6. Find the area and perimeter of the figure below. All segments are perpendicular. (cm)



Area: \_\_\_\_\_

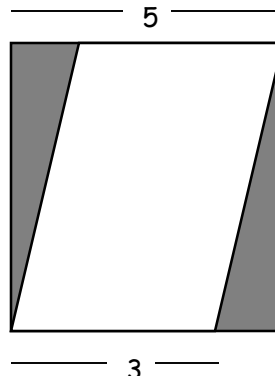
Perimeter: \_\_\_\_\_

Ex7. Find the area of the shaded region.



Area: \_\_\_\_\_

Ex8. Find the area of the shaded region.



(Outside figure is a square.)

Area: \_\_\_\_\_