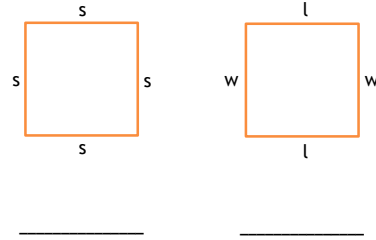# Perimeter and Area Review
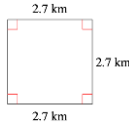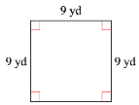
## AREA OF A SQUARE

- A square is a figure with four congruent sides and right angles. You can find the area of the square one of two ways...
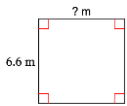
s
s ☐ s
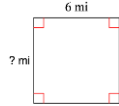s

l
w ☐ w
l

_____      _____

## EXAMPLES

Find the area of the squares below.

9 yd
9 yd ☐ 9 yd

2.7 km
☐ 2.7 km
2.7 km

Find the missing side length of the squares below (hint: use the inverse operation).

? m
6.6 m ☐

6 mi
? mi ☐

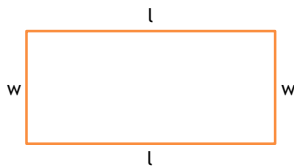Area = 43.6 m²          Area = 36 mi²

## SQUARE

The frame around the clock on Big Ben is a 7 meter square. What is the area of the frame around the clock on the tower?
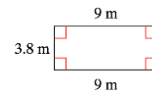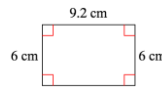
## AREA OF A RECTANGLE

- A rectangle is a figure with two sets of congruent parallel sides and four right angles. You can find the area of a rectangle by using the formula _____.
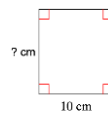
l
w ☐ w
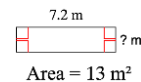l

## EXAMPLES

Find the area of the rectangles below.

9.2 cm
6 cm ☐ 6 cm

9 m
3.8 m ☐
9 m

Find the missing side length of the rectangles below (hint: use the inverse operation).
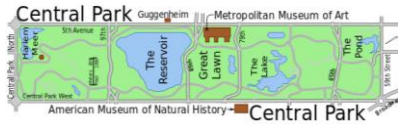
? cm ☐
10 cm
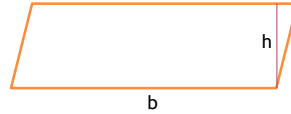Area = 115 cm²

7.2 m
☐ ? m
Area = 13 m²

## RECTANGLE



Central Park in New York City is 2.5 miles long and 0.5 miles wide. What is the area of Central Park?
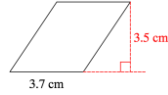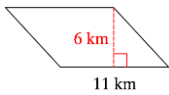
## AREA OF A PARALLELOGRAM

- A parallelogram is a figure with two sets of congruent parallel sides . You can find the area of a parallelogram by using the formula _____.
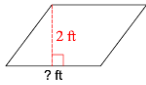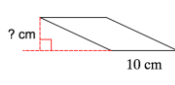


## EXAMPLES

Find the area of the parallelograms below.



6 km
11 km

3.5 cm
3.7 cm

Find the missing measurement of the parallelograms below (hint: use the inverse operation).

2 ft
? ft
Area = 6.2 ft²

? cm
10 cm
Area = 50 cm²

## PARALLELOGRAM



This building stands at the foot of Mt. Yatsugatake in Japan. It was designed to be an architect's studio. If the base is about 6 meters long and 23.4 meters tall, what is the area of the face of the house facing you in this photograph?
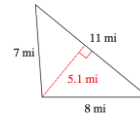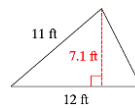
## AREA OF A TRIANGLE

- A triangle is a three sided figure with a base and height.
- Remember the area of a parallelogram? Using the figure below and the area of a parallelogram, what is the area formula for a triangle?



h
b
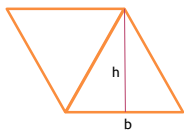
Because a triangle is _____ a parallelogram, the formula for a triangle is _____ or _____.

## EXAMPLES

Find the area of the triangles below.

11 ft
7.1 ft
12 ft

7 mi
11 mi
5.1 mi
8 mi

Find the missing measurement of the triangles below (hint: use an equation to help you solve). Round to the nearest tenth if needed.

? cm
5.7 cm
Area = 13.7 cm²
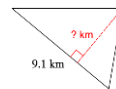
? km
9.1 km
Area – 23.2 km²

## TRIANGLE



The Louvre in Paris has a pyramid that serves as the main entrance. Each face of the pyramid is 35 meters long and has a height of about 27.03 meters. What is the area of each face?

## AREA OF A TRAPEZOID

◉ A trapezoid is a figure with one set of parallel sides. You can find the area of a trapezoid by using the formula

_____ or

_____.



a

h

b

## EXAMPLES

Find the area of the trapezoids below.

2.9 mi

4 mi

8.7 mi

5.1 ft

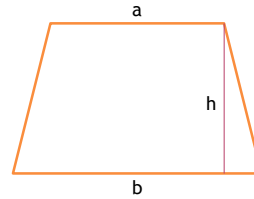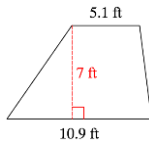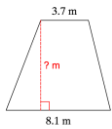7 ft

10.9 ft

Find the missing measurement of the trapezoid below (hint: use an equation to help you solve). Round to the nearest tenth if needed.

3.7 m

? m

8.1 m

Area = 41.3 m²

## TRAPEZOID



Eye Bank is a medical facility in Venice, Italy. The trapezoid walls stand 12 meters high. The ground piece of the trapezoid is approximately 24 meters long and the top of the trapezoids are approximately 30 meters long. Given these dimensions, find the area of each trapezoid.

## PERIMETER

◉ The perimeter of any figure listed above is the sum of its sides that make up the shape.

4

10          10

7
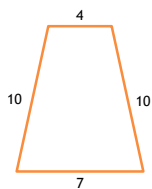
4 + 10 + 7 + 10 = _____

## EXAMPLES

Find the perimeter of the figures below (hint: all measurements may not be used).

9 km

7.6 km          7.6 km

9 km

2.3 m

1.5 m   1.4 m   1.5 m

1.1 m

4.8 yd   7.7 yd

4.5 yd

7.9 yd

6 mi

5 mi          8.1 mi

6 mi