TESSON Reteach

9-3 Area of Parallelograms

The area of a figure is the number of square units inside the figure.



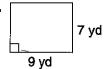
You can count the squares inside the rectangle. There are 15 square units within the rectangle. This is equal to 5 • 3.

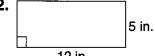
To find the area of a rectangle, multiply the length (ℓ) times the width (w).

$$A = \ell \cdot w$$

Find the area of each rectangle.

1.





$$A = I \cdot w$$

The area is _____ yd².

 $A = I \cdot W$

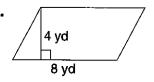
The area is _____ in².

To find the area of a parallelogram, multiply the base b times the height h.

$$A = b \cdot h$$

Find the area of each parallelogram.

3.





$$A = b \cdot h$$

The area is _____ yd².

 $A = b \cdot h$

The area is ____ cm².

Name	

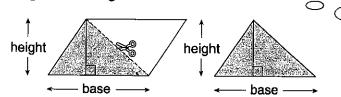
Date

Class

LESSON Reteach

Area of Triangles and Trapezoids

The diagram shows how you can cut a parallelogram into two congruent triangles.

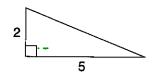


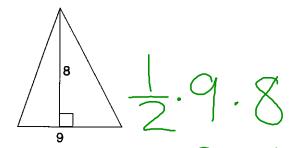
Remember that the formula for the area of a parallelogram iş $A = b \cdot h$.

The area of the triangle is $\frac{1}{2}$ the area of the parallelogram.

The formula for the area of a triangle is $A = \frac{1}{2} \cdot b \cdot h$.

Find the area of each triangle.





1.
$$A = \frac{1}{2} \cdot b \cdot h$$

$$A = \frac{1}{2} \cdot \frac{5}{10} \cdot \frac{2}{10}$$

$$A = \frac{1}{2} \cdot \frac{5}{10} \cdot \frac{2}{10}$$

$$A = \frac{5}{10} \cdot \frac{5}{10} \cdot \frac{2}{10}$$

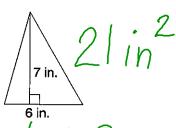
2.
$$A = \frac{1}{2} \cdot b \cdot h$$

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

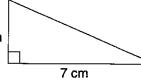
The area of the triangle is

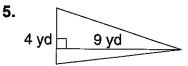
The area of the triangle is

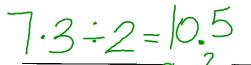


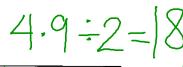


3 cm









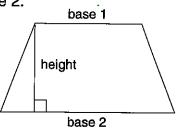
6. What is the area of a triangle with base 16 m and height 10 m?

7. What is the area of a triangle with base 25 mm and height 50 mm?

Reteach

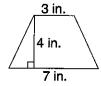
LESSON 9-4 Area of Triangles and Trapezoids (continued)

In a trapezoid, the parallel sides are called the bases. One base is always longer than the other. The bases are labeled base 1 and base 2.



Area of trapezoid =
$$\frac{1}{2}h(b_1 + b_2)$$

Find the area of each trapezoid.

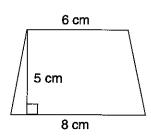


8.
$$A = \frac{1}{2}h(b_1 + b_2)$$

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

$$A = 20$$

The area of the trapezoid is 11.



9.
$$A = \frac{1}{2}h(b_1 + b_2)$$

 $A = \frac{1}{2} \cdot \frac{1}{5}(\frac{6}{5} + \frac{8}{5})$

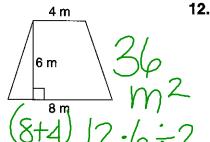
$$A = \frac{1}{2} \cdot \underline{\qquad} ($$

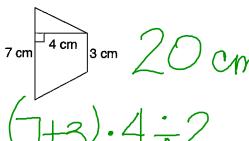
$$A = 35$$

The area of the trapezoid is

10.







13. What is the area of a trapezoid with bases 25 yd and 75 yd and height 10 yd?

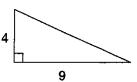
LESSON Practice A

Area of Triangles and Trapezoids

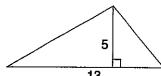
Find the area of each triangle.

1.



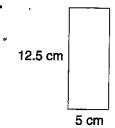


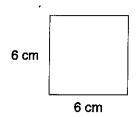
3.



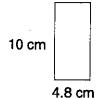
Find the area of each rectangle.

3.



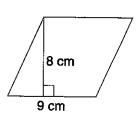


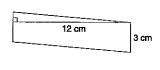
5.



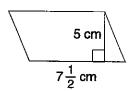
Find the area of each parallelogram.

6.





8.



- 9. Michelle wants to carpet her living room. The area of the living room is 192 ft2. The length of the living room is 16 ft. What is the width of the living room? _
- 10. Mustafa is tiling his bathroom. The section that needs to be tiled is 62 in. by 70 in. How many square inches of tile does he need? ___