

6th Grade
May 3, 2021

Today we will:

-Review last week's
packets/notes/
homework

-Begin classwork on
area of parallelograms
and triangles



HOMEWORK:

Complete WS

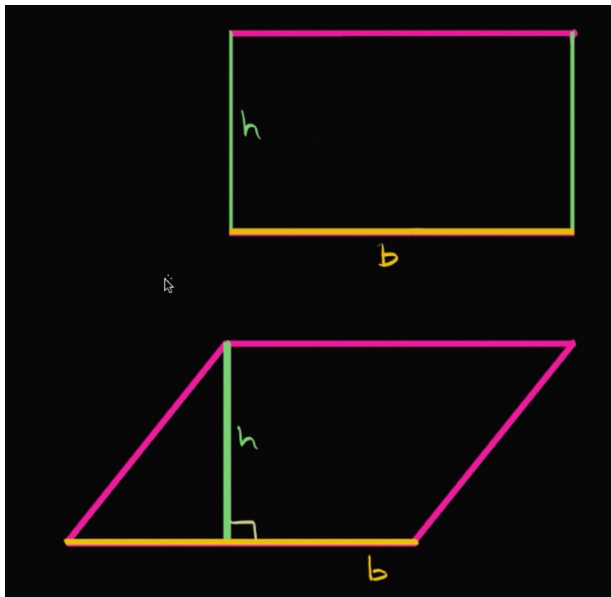
ALEKS time and topics
due TONIGHT at 11:59PM



Name _____

Area of Parallelograms Video Notes, Ch9 Lesson 1, April 29

Area is the amount of space *inside* a shape.



Area of this rectangle is

$$A = \underline{bh}$$

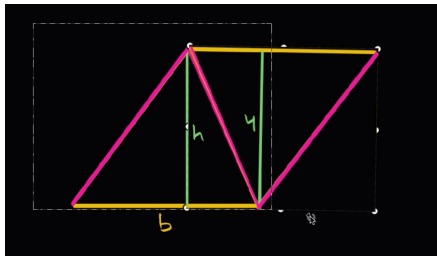
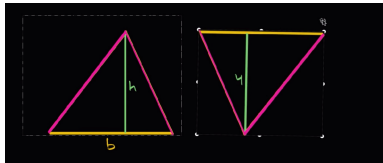
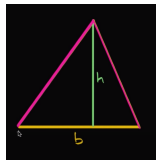
If we rearrange the parallelogram, you will see that you have a rectangle again.

So the area formula of a parallelogram is

$$A = \underline{bh}$$

Area of Triangles Video Notes, Ch9 Lesson 2, April 30

Area is the amount of space *inside* a shape.



If we copy and paste another triangle, you will see that you have a parallelogram again.

Area of this parallelogram is $A = \underline{bh}$

But we need the area of only one triangle, not two.

So the area formula of a triangle is

$$A = \underline{\frac{1}{2}bh \text{ or } \frac{bh}{2} \text{ or } b \times h \div 2}$$

Name _____

Pg664 #1-5, April 29

Find the area of each parallelogram. (Examples 1 and 2)

1. 12 units²



$b = 6 \text{ units}$
 $h = 2 \text{ units}$

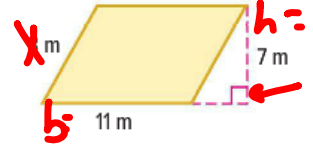
$A = bh = 6 \cdot 2 = 12 \text{ units}^2$

2. 50 ft²



$A = bh$
 $= 10 \cdot 5$
 $= 50 \text{ ft}^2$

3. 77 m²



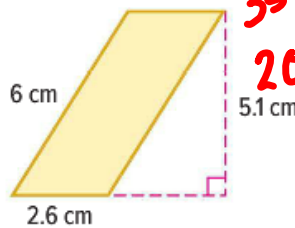
$A = bh = 11 \cdot 7$
 $= 77 \text{ m}^2$

4. Find the height of a parallelogram if its base is 35 centimeters and its area is 700 square centimeters.

(Example 3) 20 cm

$A = bh$
 $700 = 35h$
 $\frac{700}{35} = \frac{35h}{35}$
 $20 = h$

5. The size of the parallelogram piece in a set of tangrams is shown at the right. Find the area of the piece. (Example 4)




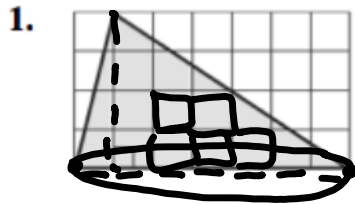
$A = bh = 2.6 \cdot 5.1$
 $= 13.26 \text{ cm}^2$

Area of Triangles WS, April 30

Find the area of each triangle.

To find the height, look for the little square! (Height is how far straight up, or perpendicular to the base.)

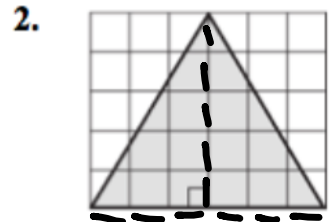
1 in 
 1 in. \times 1 in. = 1 in²



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

$$= \frac{7 \cdot 4}{2}$$

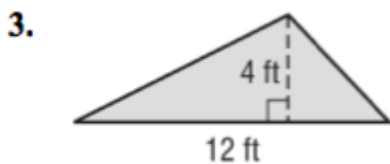
$$= 14 \text{ units}^2$$



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

$$= \frac{6 \cdot 5}{2}$$

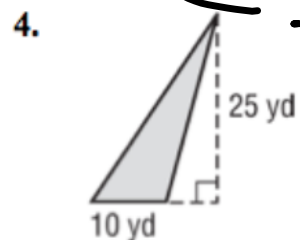
$$= 15 \text{ units}^2$$



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

$$= \frac{12 \cdot 4}{2} = \frac{48}{2}$$

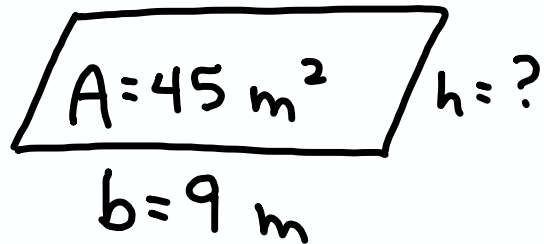
$$= 24 \text{ ft}^2$$



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


$$= \frac{10 \cdot 25}{2}$$

$$= \frac{250}{2} = 125 \text{ yd}^2$$



$$\begin{aligned} A &= bh \\ 45 &= 9h \\ \frac{45}{9} &= \frac{9h}{9} \\ 5 \text{ m} &= h \end{aligned}$$



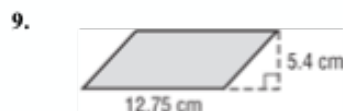
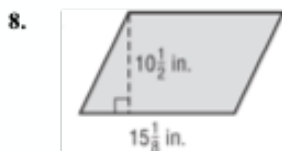
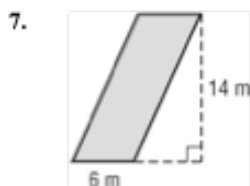
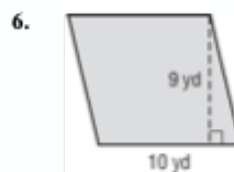
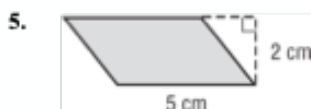
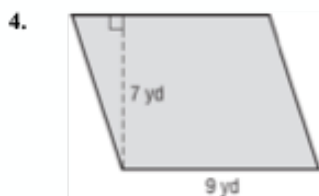
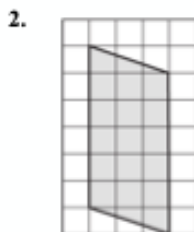

 Name _____
 Unit _____ Lesson _____ Due Date _____

Lesson 1 Skills Practice

Calculators OK

Area of Parallelograms

Find the area of each parallelogram.



10. Find the base of a parallelogram with an area of 18 square inches and a height of 2 inches.

11. Find the height of a parallelogram with an area of 63 square yards and base 9 yards.

Lesson 2 Homework Practice

Calculators OK

Area of Triangles

Find the area of each triangle.

