

6th Grade
May 7, 2021

Today we will:

- Review WS and video notes
- Examples together

HOMEWORK:

ALEKS time and topics
due Monday at 11:59PM

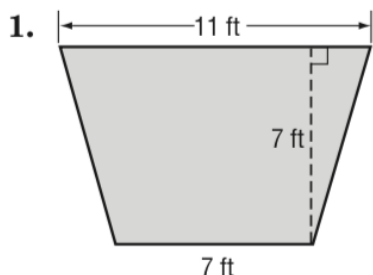


Lesson 3 Homework Practice

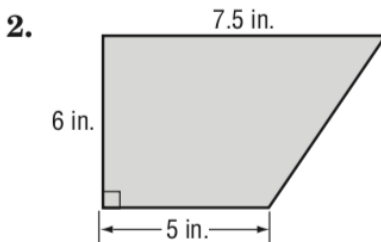
Area of Trapezoids

$$A = (b_1 + b_2) \times h \div 2$$

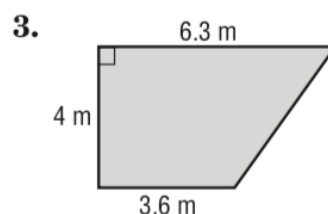
Find the area of each figure. Round to the nearest tenth if necessary.



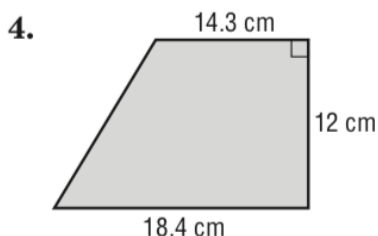
63 ft²



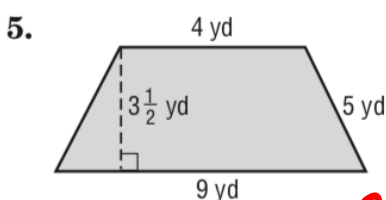
37.5 in²



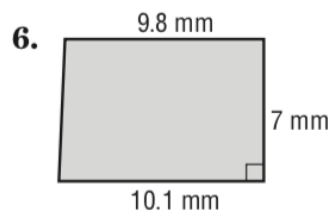
19.8 m²



196.2 cm²



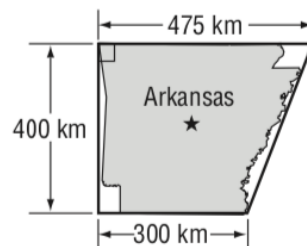
22.8 yd² or 22 ³/₄



69.7 mm²

7. **GEOGRAPHY** The shape of Arkansas is roughly trapezoidal with bases of 475 kilometers and 300 kilometers and a height of 400 kilometers. What is the approximate area of Arkansas?

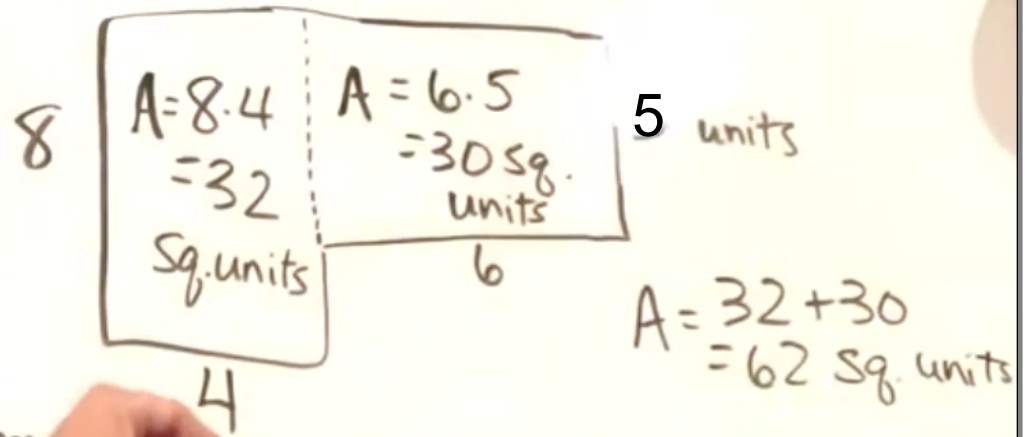
155,000 km²



Task #1: Check completed notes/HW and put in notebook if it is not already.

Area of Composite Figures Video Notes, Ch9 Lesson 6, May 6

Composite figures are two or more
figures combined to make a new
shape.



To find

total area,

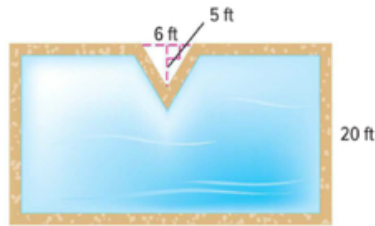
we will add

or subtract

the areas of

the known shapes.

The diagram gives the dimensions of a swimming pool. If a cover is needed for the pool, what will be the approximate area of the cover? _____



Handwritten solution for the swimming pool problem:

$$A_{\text{rect}} = 36 \cdot 20 = 720 \text{ sq ft}$$

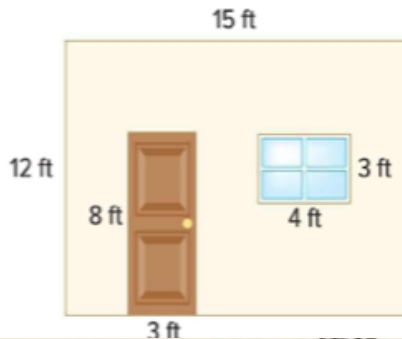
$$A_{\Delta} = \frac{1}{2} \cdot b \cdot h = \frac{1}{2} \cdot 6 \cdot 5 = 15 \text{ ft}^2$$

$$A_{\text{cover}} = 720 - 15 = 705 \text{ ft}^2$$

MP Persevere with Problems

The diagram shows one wall of Sadie's living room.

- a. This wall needs to be painted. Find the total area to be painted.



Handwritten solution for the living room wall problem:

$$A_{\text{wall}} = 15 \times 12 = 180 \text{ ft}^2$$

$$A_{\text{door}} = 8 \times 3 = 24 \text{ ft}^2$$

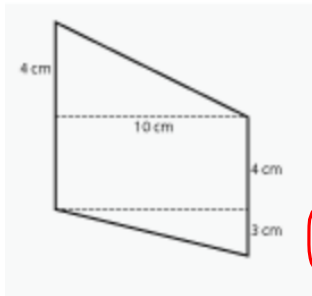
$$A_{\text{window}} = 3 \times 4 = 12 \text{ ft}^2$$

$$A_{\text{wall to paint}} = 180 - 24 - 12 = 144 \text{ sq ft}$$

Complete and put into binder after your notes. Name _____

Area of Composite Figures Ch9 Lesson 6, May 7

1.



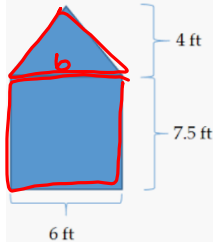
$$A_{\text{Top } \Delta} = b \times h \div 2 = 10 \times 4 \div 2 = 20$$

$$A_{\square} = l \times w = 10 \times 4 = 40$$

$$A_{\text{bottom } \Delta} = b \times h \div 2 = 10 \times 3 \div 2 = 15$$

Area = 75 cm²

2.

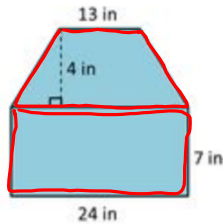


$$A_{\Delta} = b \times h \div 2 = 6 \times 4 \div 2 = 12$$

$$A_{\square} = l \times w = 6 \times 7.5 = 45$$

Area = 57 ft²

3.

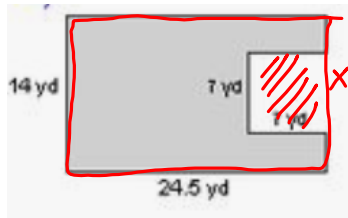


$$A_{\text{trapezoid}} = (b_1 + b_2) \times h \div 2 = (13 + 24) \times 4 \div 2 = 74$$

$$+ A_{\square} = l \times w = 24 \times 7 = 168$$

Area = 242 m²

4.

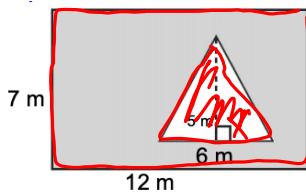


$$A_{\square} = l \times w = 14 \times 24.5 = 343$$

$$- A_{\square} = l \times w = 7 \times 7 = -49$$

Area = 294 yd²

5.



$$A_{\square} = l \times w = 7 \times 12 = 84$$

$$- A_{\Delta} = b \times h \div 2 = 6 \times 5 \div 2 = 15$$

Area = 69 m²

69
m²

