

6th Grade
May 4, 2021

Today we will:

- Review yesterday's WS
- Watch video notes in class
- Do example
- Begin HW

HOMEWORK:

Skills WS

ALEKS time and topics
due Monday at 11:59PM



 Name _____
 CLASSWORK Unit _____ Lesson _____ Due Date _____

Lesson 1 Skills Practice

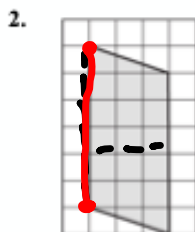
Calculators OK

Area of Parallelograms

Find the area of each parallelogram.



~~4x3=12~~
 $4 \times 3 = 12$
 12 units^2

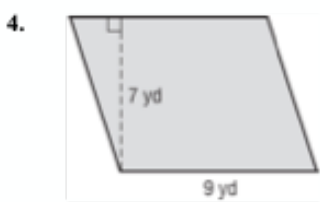


6×3

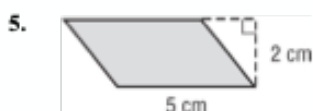
18 units^2



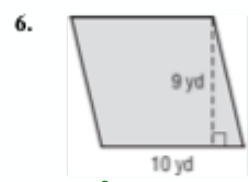
$7 \times 3 = 21$
 21 feet^2



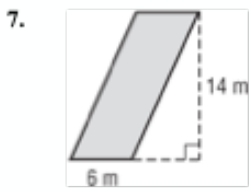
$A = 63 \text{ yd}^2$



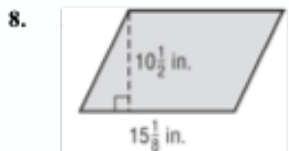
$A = 10 \text{ cm}^2$



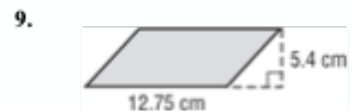
$A = 90 \text{ yd}^2$



84 m^2



$158 \frac{13}{16} \text{ in}^2$



68.85 cm^2

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

9 in

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

7 yards

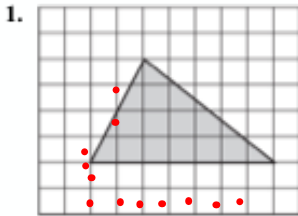
Lesson 2 Homework Practice

Calculators OK

Area of Triangles

Find the area of each triangle.

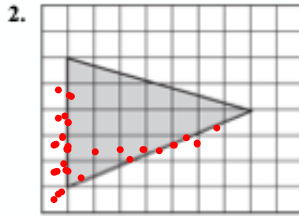
$$A = b \times h \div 2$$



$$4 \cdot 8 = 32$$

$$32 \div 2 = 16$$

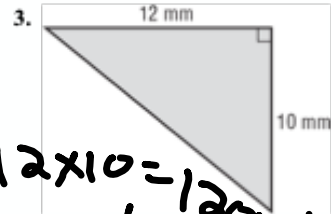
16 units²



$$7 \times 5 = 35$$

$$35 \div 2 = 17 \frac{1}{2}$$

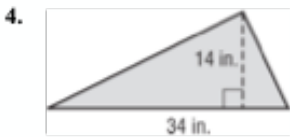
17 1/2 units²



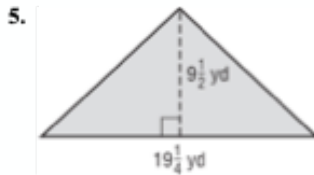
$$12 \times 10 = 120 \text{ units}^2$$

$$120 \div 2 = 60$$

60 units²



$$A = 238 \text{ in}^2$$



$$91 \frac{7}{16} \text{ yd}^2$$



$$23.7 \times 4.9 =$$

$$116.13$$

$$58.065 \text{ m}^2$$



Task #1

Go to Edpuzzle and take notes while you watch the video that is dated for today, May 4. It is a Khan Academy video.

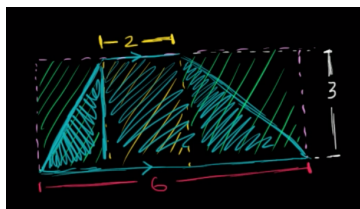
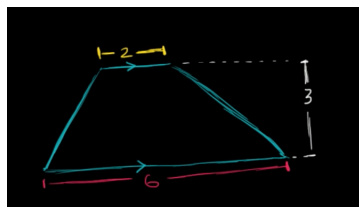


Task #1: Complete and put into notebook.

Area of Trapezoids Video Notes, Ch9 Lesson 3, May 4

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

*These are exact quotes from the Khan video--listen for them!



$$\frac{6 \cdot 3 + 2 \cdot 3}{2}$$

"You could view it as the average of the smaller and larger _____ so you multiply each of the _____ times the _____ and then take the average."

$$= \frac{(6 + 2) \cdot 3}{2}$$

"You could view it as--well, let's just add up the two _____ lengths, multiply that times the _____, and then divide by 2."

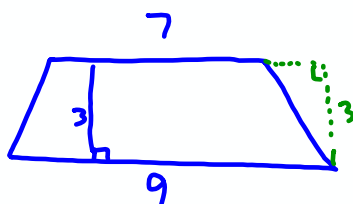
$$\left(\frac{6 + 2}{2} \right) \cdot 3$$

"Or you could say, hey, let's take the _____ of the two _____ lengths and multiply that by 3 (the height)."

The area formula of a trapezoid that our text uses is

$$A = \frac{1}{2}h(b_1 + b_2) = \frac{h \cdot (b_1 + b_2)}{2} = h \cdot (b_1 + b_2) \div 2$$

You may use any of the above that Khan came up with, or use the book's formula. They will all get the same answer. Use the one that makes the most sense to you.



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

$$= \frac{1}{2} \cdot 3 (7 + 9)$$

$$= \frac{1}{2} \cdot 3 \cdot 16$$

$$= \frac{1}{2} \cdot 48$$

$$\begin{array}{r} 16 \\ \times 3 \\ \hline \end{array}$$

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

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

$$= (7 + 9) \cdot 3 \div 2$$

$$= 16 \cdot 3 \div 2$$

$$= 48 \div 2$$

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

18. 2359....

18.2

19. 264.....

19.3



Task #3

Complete the following worksheet and put into binder when finished.



Task #3: Complete and put into notebook after your notes.

Area of Trapezoids, Ch9 Lesson 3, pg691 -May 4

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

or

$$\text{Area } A = \frac{h(b_1 + b_2)}{2}$$

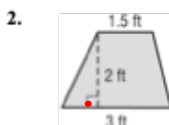
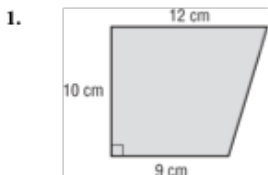
NAME _____ DATE _____ PERIOD _____

Lesson 3 Skills Practice

Area of Trapezoids

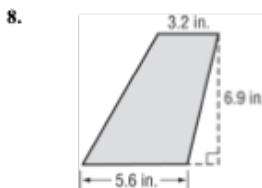
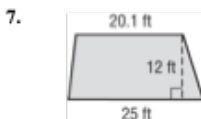
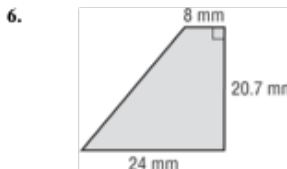
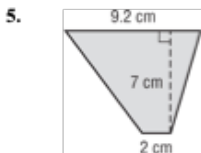
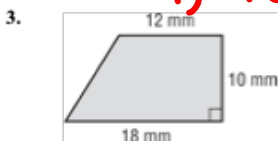
*The bases are the 2 parallel lines!

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



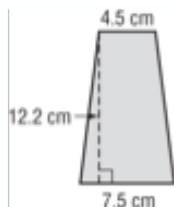
$$A = (b_1 + b_2) \times h \div 2 = (12 + 9) \times 10 \div 2 = 105 \text{ cm}^2$$

$$A = (b_1 + b_2) \times h \div 2 = (1.5 + 3) \times 2 \div 2 = 4.5 \text{ ft}^2$$

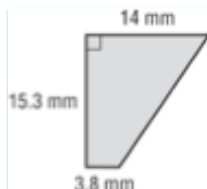


NAME _____ DATE _____ PERIOD _____

9.



10.



11. trapezoid: bases 22.8 mm and 19.7 mm, height 36 mm

12. trapezoid: bases 5 ft and 3.5 ft, height 7 ft

13. DESKS What is the area of the top of the desk shown at right?



