## Math 6: Week of May 25th

#### Unit: Geometry

Lesson 2: Area of Triangles Target: Find the area of triangles using specific formulas.

Lesson 3: Area of Trapezoids Target: Find the area of trapezoids using specific formulas.

- Directions: Go through the slides (notes) and work through the examples on a separate piece of paper. If you have your

Disclaimer: Any figures used in these lessons are not drawn to scale.

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- Go intogen the studes (notes) and work introdent in examples on a separate piece or paper. In you have your math notebook, use tit Complete the practice problems on a separate piece of paper. You can use a calculator but continue to show your work. Check your answers with the key given at the end of the lesson. If you got one wrong, double check your steps with your notes and recalculate it. • Are you stuck?

  - Use Google Classroom or Gmail to ask Mrs. Thomas a question.
    Live video helps sessions: Thursdays at 9:30am using Meet through Google Classroom















Area of Trapezo	ids Lesson 3			
$A = \frac{1}{2}(b_1 + b_2) h$ Area = one half x (base 1 + base :	Area = $(b_1 + b_2) h$ 2) x height 2			
<sub>9 ft</sub> Find the missing height. Start with what you KNOW				
h	$22.5 = \frac{1}{2}(9+6) h$			
	22.5 = $\frac{1}{2}$ (15) h			
6 ft	22.5 = (7.5) h **What times 7.5 = 22.5?**			
A= 22.5 ft² h = <b>3 ft</b>	22.5 ÷ 7.5 = <u>3</u> 3 × 7.5 = 22.5			

Practice Problems: Worksheets					
Lesson 2 ~ Area of Triangles					
Lesson 3 ~ Area of Trapezoids					
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Check your work!	1		420 cm <sup>2</sup>	6	
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Worksheet Answers Provided Here!	· ພວ ອ	.,	525 cm <sup>2</sup>	۲.	
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Kuraha shah AOK	37.5 in <sup>2</sup> ni 8.75	.4.	2 <sup>ni 081</sup>	.4.	
Live Meet help sessions are provided every Thursday at 9:30am. Check Google Classroom for more	0.08 cm <sup>2</sup>	3.	<sup>2</sup> mm 004	.5	
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#### Name

# **Explore Area of Triangles**

# Lesson 10.2

#### COMMON CORE STANDARD CC.6.G.1

Solve real-world and mathematical problems involving area, surface area, and volume.



- 10. Fabian is decorating a triangular pennant for a football game. The pennant has a base of 10 inches and a height of 24 inches. What is the total area of the pennant?
- 11. Ryan is buying a triangular tract of land. The triangle has a base of 100 yards and a height of 300 yards. What is the area of the tract of land?

### Name

# Area of Trapezoids

## Find the area of the trapezoid.









# Find the height of the trapezoid.



Problem Solving REAL WORLD

7. Sonia makes a wooden frame around a square picture. The frame is made of 4 congruent trapezoids. The shorter base is 9 in., the longer base is 12 in., and the height is 1.5 in. What is the area of the picture frame?



#### COMMON CORE STANDARD CC.6.G.1

Solve real-world and mathematical problems involving area, surface area, and volume.



 Bryan cuts a piece of cardboard in the shape of a trapezoid. The area of the cutout is 43.5 square centimeters. If the bases are 6 centimeters and 8.5 centimeters long, what is the height of the trapezoid?