

# Math 6 - Unit 5: Area & Volume

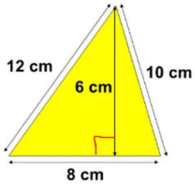
Get a Clue (Area of Polygons)

Name: \_\_\_\_\_

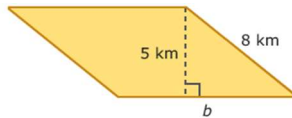
Class Period: 1 2 3 4 Date: \_\_\_\_\_

Solve each problem. Show **ALL** steps (Formula, Substitute, Solve), and **CIRCLE** your answers.

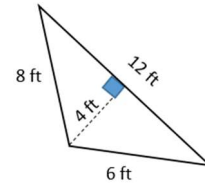
1) Find the area.



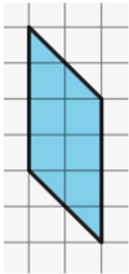
2) If the area of this shape is  $32.5 \text{ km}^2$ , how long is its base?



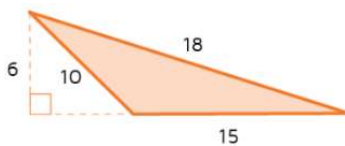
3) Calculate the area.



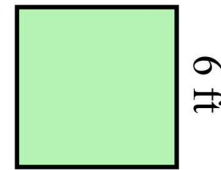
4) Find the area of this polygon.



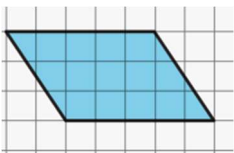
5) How many square units are inside this polygon?



6) What is the square's area?



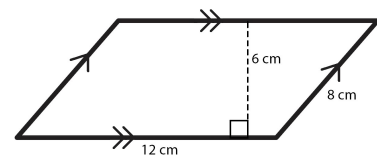
7) Find the area.



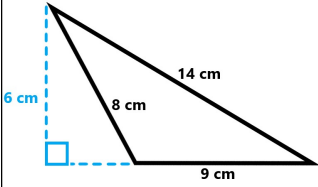
8) A rectangular rug is 8 ft long and 10 ft wide. If each square foot costs \$4.50, what is the cost of the rug?

*(Hint: First, find the area. Then, multiply by the area by \$4.50.)*

9) Calculate the area.



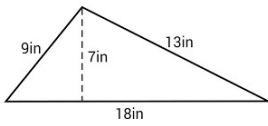
10) How many square units can fit inside this triangle?



11) A rectangle has an area of 960 square inches. If the rectangle is 12 inches wide, what is its length?

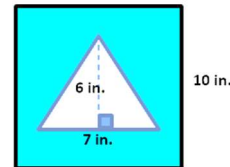
12) What is the area of a square that is 10 cm wide?

13) Find the area.



14) Jordan's room is 12 ft long and 12 ft wide. Sofia's room is 11 ft long and 13 ft wide. What is the combined area of both of their rooms?

15) What is the area of **only** the shaded region?



Who?		Where?		What?	
6.5 km	Fred	27 cm <sup>2</sup>	Mystery Inc.	78 ft <sup>2</sup>	The Van
8 units <sup>2</sup>	Shaggy	36 ft <sup>2</sup>	Crystal Cove	79 in. <sup>2</sup>	Swarm of Cicadas
15 units <sup>2</sup>	Daphne	42 m <sup>2</sup>	Haunted Mansion	80 in.	Super Soaker
24 cm <sup>2</sup>	Velma	45 units <sup>2</sup>	Spooky Swamp	100 cm <sup>2</sup>	Poisoned Lemonade
24 ft	Scooby-Doo	63 in. <sup>2</sup>	Coolsville	287 ft <sup>2</sup>	Moldy Scooby Snacks
24 ft <sup>2</sup>	The Villain	72 cm <sup>2</sup>	Cartoon Network HQ	360	Laser Tag Gun

Who? \_\_\_\_\_ Where? \_\_\_\_\_ What? \_\_\_\_\_



# Math 6 - Unit 5: Area & Volume

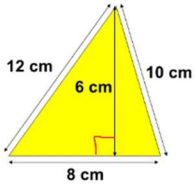
Get a Clue (Area of Polygons)

Name: \_\_\_\_\_

Class Period: 1 2 3 4 Date: \_\_\_\_\_

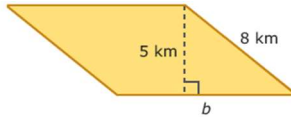
Solve each problem. Show **ALL** steps (Formula, Substitute, Solve), and **CIRCLE** your answers.

1) Find the area.



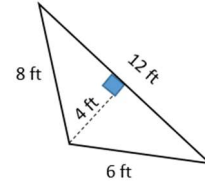
24 cm<sup>2</sup>

2) If the area of this shape is 32.5 km<sup>2</sup>, how long is its base?



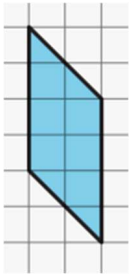
6.5 km

3) Calculate the area.



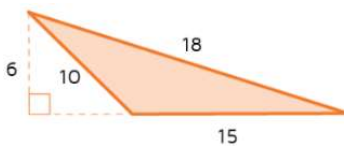
24 ft<sup>2</sup>

4) Find the area of this polygon.



8 units<sup>2</sup>

5) How many square units are inside this polygon?



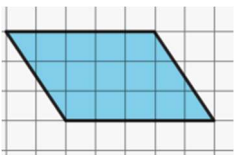
45 units<sup>2</sup>

6) What is the square's area?



36 ft<sup>2</sup>

7) Find the area.



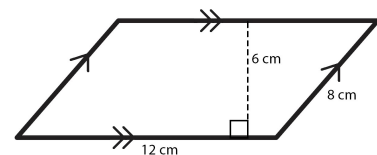
15 units<sup>2</sup>

8) A rectangular rug is 8 ft long and 10 ft wide. If each square foot costs \$4.50, what is the cost of the rug?

(Hint: First, find the area. Then, multiply by the area by \$4.50.)

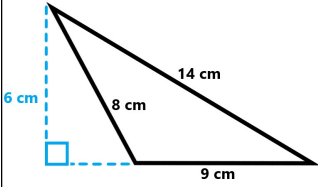
\$360

9) Calculate the area.



72 cm<sup>2</sup>

10) How many square units can fit inside this triangle?



27 cm<sup>2</sup>

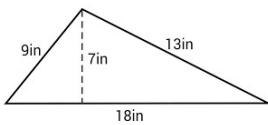
11) A rectangle has an area of 960 square inches. If the rectangle is 12 inches wide, what is its length?

80 in

12) What is the area of a square that is 10 cm wide?

100 cm<sup>2</sup>

13) Find the area.

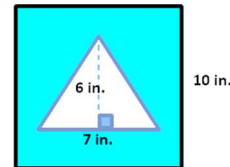


63 in<sup>2</sup>

14) Jordan's room is 12 ft long and 12 ft wide. Sofia's room is 11 ft long and 13 ft wide. What is the combined area of both of their rooms?

287 ft<sup>2</sup>

15) What is the area of **only** the shaded region?



79 in<sup>2</sup>

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