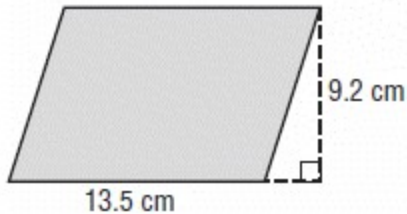


## Test 2B (Assessment Masters)

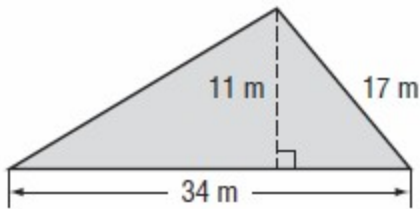
## Multiple Choice

Indicate the answer choice that best completes the statement or answers the question.

- \_\_\_ 1. A package of sticky notes is in the shape of parallelogram. The dimensions of one sticky note are shown. What is the area of one sticky note?



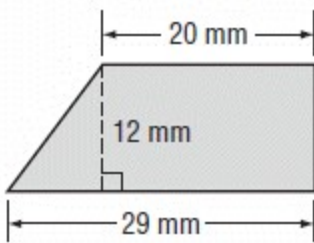
- a.  $248.4 \text{ cm}^2$     b.  $124.2 \text{ cm}^2$   
c.  $62.1 \text{ cm}^2$     d.  $22.7 \text{ cm}^2$
- \_\_\_ 2. What is the base of a parallelogram with height 7.3 meters and an area of 65.7 square meters?  
a. 3.65 m    b. 4.5 m  
c. 9 m    d. 18 m
- \_\_\_ 3. What is the area of the triangle?



- a.  $578 \text{ m}^2$     b.  $374 \text{ m}^2$   
c.  $289 \text{ m}^2$     d.  $187 \text{ m}^2$
- \_\_\_ 4. Jaida is buying a triangular-shaped rug. It has a height of  $3\frac{1}{2}$  feet and a base of  $4\frac{1}{4}$  feet. What is the area of the rug?  
a.  $7\frac{7}{16} \text{ ft}^2$     b.  $7\frac{3}{4} \text{ ft}^2$   
c.  $12\frac{15}{16} \text{ ft}^2$     d.  $14\frac{7}{8} \text{ ft}^2$
- \_\_\_ 5. A triangle has a base of 15 inches and an area of 82.5 square inches. What is the height of the triangle?  
a. 5.5 in.    b. 11 in.  
c. 22 in.    d. 67.5 in.

Test 2B (Assessment Masters)

\_\_\_ 6. What is the area of the trapezoid?

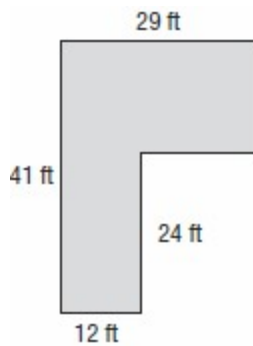


- a.  $588 \text{ mm}^2$
- b.  $354 \text{ mm}^2$
- c.  $294 \text{ mm}^2$
- d.  $234 \text{ mm}^2$

Numeric Response

Enter the appropriate value to answer the question or solve the problem.

Refer to the figure at the right that shows the dimensions of Gabby's attic floor.



7. What is the perimeter of the attic floor?

\_\_\_\_\_ ft

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8. What is the area of the attic floor?

\_\_\_\_\_  $\text{ft}^2$

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9. A triangular logo on the back of a T-shirt has a base of  $7\frac{1}{2}$  inches and a height of 4 inches. What is the area of the logo?

\_\_\_\_\_  $\text{in}^2$

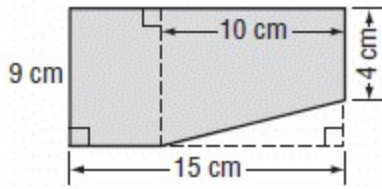
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Test 2B (Assessment Masters)

10. Find the area of the figure.



\_\_\_\_\_ cm<sup>2</sup>

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Subjective Short Answer

Use the following information.

A rectangle has vertices  $A(2, 6)$ ,  $B(2, 9)$ ,  $C(7, 9)$ , and  $D(7, 6)$ .

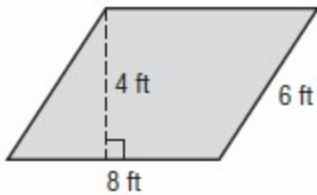
11. What is the length of each side of the rectangle?

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Refer to the parallelogram. Justify your answers.



12. Suppose the base and height are each multiplied by  $\frac{1}{2}$ . What effect would this have on the area?

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13. Suppose the side lengths are multiplied by 2. Describe the change in the perimeter.

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## Test 2B (Assessment Masters)

**Answer Key**

1. b
2. c
3. d
4. a
5. b
6. c
7. 140
8. 781
9. 15
10. 110
11.  $AB = 3$  units,  $BC = 5$  units,  $CD = 3$  units,  $DA = 5$  units
12. The area is  $\frac{1}{2} \cdot \frac{1}{2}$  or  $\frac{1}{4}$  times the original area. Area of original figure =  $32 \text{ ft}^2$ ; Area of new figure =  $8 \text{ ft}^2$ ;  
$$8 \text{ ft}^2 \div 32 \text{ ft}^2 = \frac{1}{4}$$
13. The perimeter is 2 times greater. Perimeter of original figure = 28 ft; Perimeter of new figure = 56 ft;  $2 \cdot 28 \text{ ft} = 56 \text{ ft}$