LESSON 9-3

Puzzles, Twisters & Teasers

Reach the Heights!

Across

4. a four-sided figure with congruent and parallel opposite sides

5. shape

8. the width of the rectangle

Down

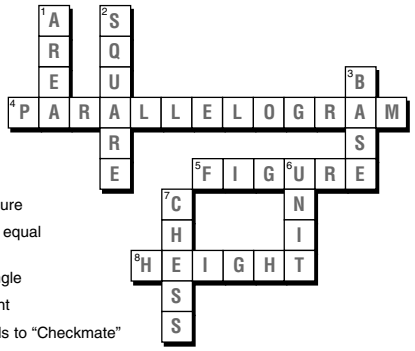
1. number of square units needed to cover the figure

2. parallelogram with four equal sides and angles

3. the length of the rectangle

6. _____ of measurement

7. a _____ board leads to "Checkmate"



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LESSON 9-4

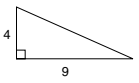
Practice A

Area of Triangles and Trapezoids

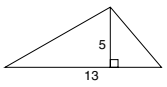
Find the area of each triangle.

1. 

21 square units

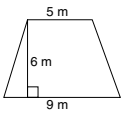
2. 

18 square units

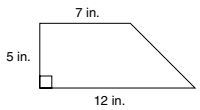
3. 

32.5 square units

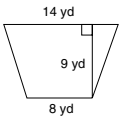
Find the area of each trapezoid. Choose the letter for the best answer.

4. 

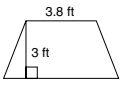
A 24 m^2 **C** 54 m^2
(B) 42 m^2 **D** 84 m^2

5. 

F 95 in^2 **(H)** 47.5 in^2
G 60 in^2 **J** 25 in^2

6. 

(A) 99 yd^2 **C** 198 yd^2
B 126 yd^2 **D** Not Here

7. 

F 11.4 ft^2 **H** 18 ft^2
(G) 14.7 ft^2 **J** 29.4 ft^2

8. The state of Missouri is shaped somewhat like a trapezoid. What is the approximate area of Missouri?

69,600 mi^2



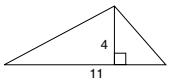
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LESSON 9-4

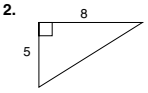
Practice B

Area of Triangles and Trapezoids

Find the area of each triangle.

1. 

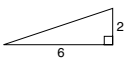
22 square units

2. 

20 square units

3. 

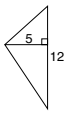
31.5 square units

4. 

6 square units

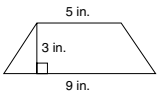
5. 

49.5 square units

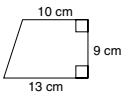
6. 

30 square units

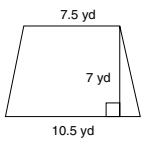
Find the area of each trapezoid.

7. 

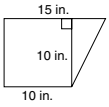
21 in^2

8. 

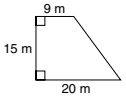
103.5 cm^2

9. 

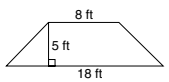
63 yd^2

10. 

125 in^2

11. 

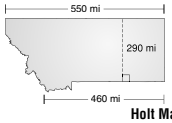
217.5 m^2

12. 

65 ft^2

13. The state of Montana is shaped somewhat like a trapezoid. What is the approximate area of Montana?

146,450 mi^2



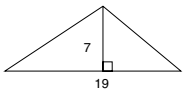
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LESSON 9-4

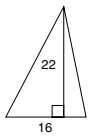
Practice C

Area of Triangles and Trapezoids

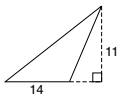
Find the area of each triangle.

1. 

66.5 square units

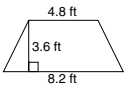
2. 

176 square units

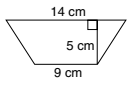
3. 

77 square units

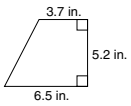
Find the area of each trapezoid.

4. 

23.4 ft^2

5. 

57.5 cm^2

6. 

26.52 in^2

Find the missing measurement of each triangle.

7. A = 100 yd^2, b = 25 yd, h = 8 yd

8. b = 5 in., h = 0.8 in., A = 2 in^2

9. A = 1,955 cm^2, h = 85 cm, b = 46 cm

Graph the polygon with the given vertices. Then find the area of the polygon.

10. (2, 3), (5, 7), (10, 3), (9, 7)

24 units^2

11. (−2, 6), (−7, 1), (−7, 6)

12.5 units^2

12. The state of Vermont is shaped somewhat like a trapezoid. What is the approximate area of Vermont?

10,400 mi^2



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