Practice B
LESSON 9-3

Area of Parallelograms

Find the area of each rectangle.

1.
8 ft
13 ft

2.
$18\frac{1}{2}$ m
$7\frac{1}{2}$ m

3.
7.3 in.
13.7 in.

Find the area of each parallelogram.

4.
7 yd
9 yd

5.
13 cm 12 cm
11 cm

6.
5.8 ft
7.2 ft

7.
2.5 m
6 m

8.
$3\frac{1}{3}$ in.
$10\frac{1}{2}$ in.
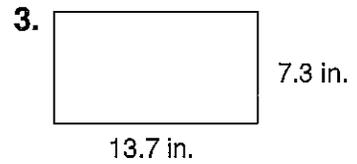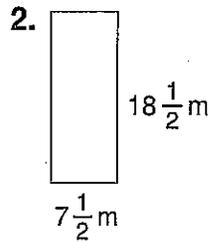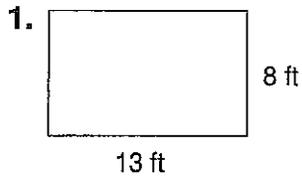
9.
5.6 m
2.8 m
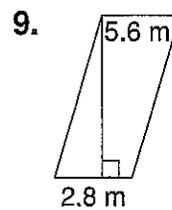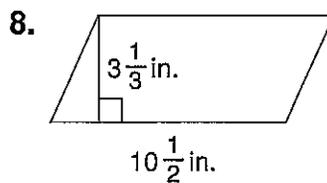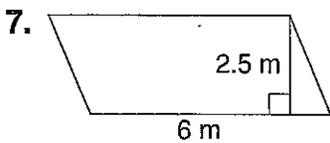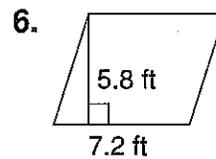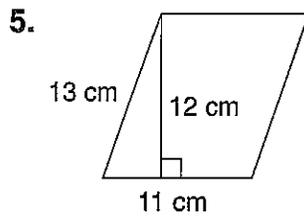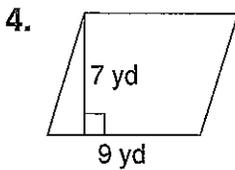
10. A dollar bill is 15.5 cm long and 6.5 cm wide. What is the area of a dollar bill?

11. A rectangular hallway has an area of 70 ft². The width of the hallway is 4 feet. What is the length of the hallway?

Holt Mathematics

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Find the area of each rectangle.

1.
15.6 yd

8 yd

_____

2. 2.5 in.

7.2 in.

_____

3.
8 ft

$5\frac{3}{4}$ ft

_____

Find the area of each parallelogram.

4.
9 cm

15 cm

_____

5.
2.6 m   2.4 m

2.1 m

_____

6.
$4\frac{1}{2}$ yd

$4\frac{2}{3}$ yd

_____

Find the area of each polygon.

7. rectangle: $\ell = 29$ in., $w = 15$ in.

_____

8. parallelogram: $b = 8$ m, $h = 3.6$ m

_____

Sketch the figure with the given vertices. Then find the area of the figure.

9. (3, −2), (8, −2), (3, 6), (8, 6)

_____

10. (2, 0), (5, 3), (8, 0), (11, 3)

_____

11. (−4, 1), (−9, 1), (0, 7), (−5, 7)

_____

12. (−1, −2), (4, −2), (−1, 5), (4, 5)

_____

13. What is the length of the base of a parallelogram with an area of 36 cm^2 and a height of 4.5 cm?

_____

14. A window is composed of 6 windowpanes. Each has a length of $10\frac{1}{2}$ in. and a width of $7\frac{1}{4}$ in. What is the total area of glass in the window?

_____

Holt Mathematics

LESSON	**Practice B**
9-4	*Area of Triangles and Trapezoids*

Find the area of each triangle.

1.
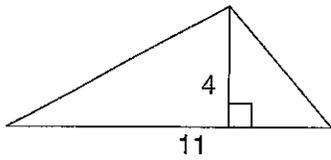
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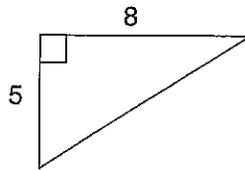
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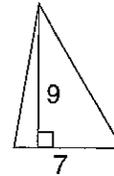
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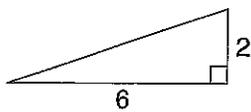
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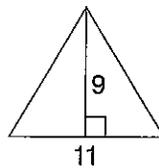
6.

_____

_____

_____
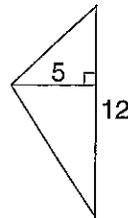
Find the area of each trapezoid.

7.
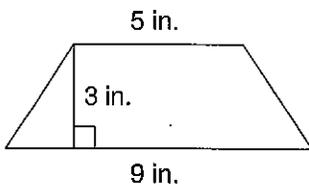
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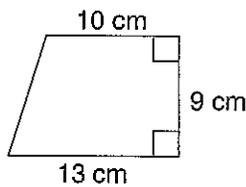
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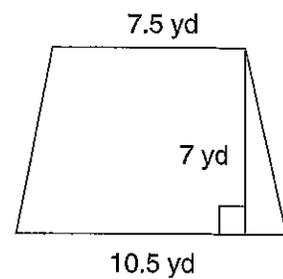
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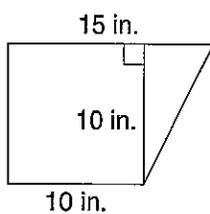
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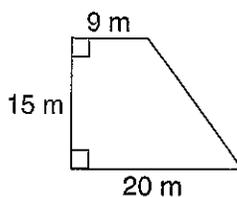
12.

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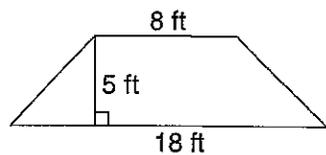
13. The state of Montana is shaped somewhat like a trapezoid. What is the approximate area of Montana?

_____

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Find the area of each triangle.

1.

7

19

2.

22

16

3.

11

14

_____   _____   _____

Find the area of each trapezoid.

4.

4.8 ft

3.6 ft

8.2 ft

5.

14 cm

5 cm

9 cm

6.

3.7 in.

5.2 in.

6.5 in.

_____   _____   _____
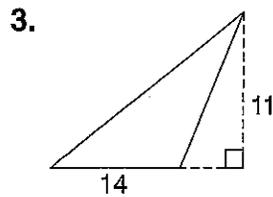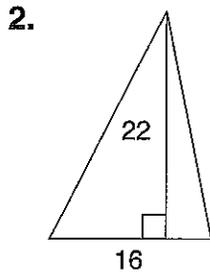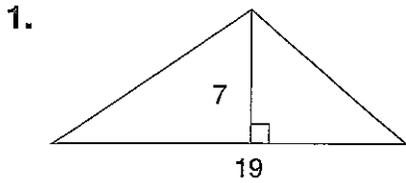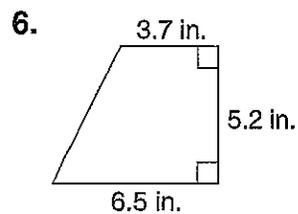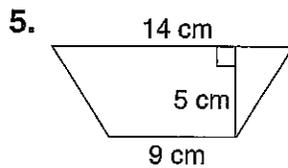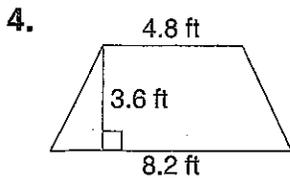
Find the missing measurement of each triangle.

7. $A = 100 \text{ yd}^2$
   $b = 25 \text{ yd}$

   $h = $ _____

8. $b = 5 \text{ in.}$
   $h = 0.8 \text{ in.}$

   $A = $ _____

9. $A = 1,955 \text{ cm}^2$
   $h = 85 \text{ cm}$

   $b = $ _____

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

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

11. (−2, 6), (−7, 1), (−7, 6)

_____   _____

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

90 mi

160 mi

40 mi

_____

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