Name _____ Date _____

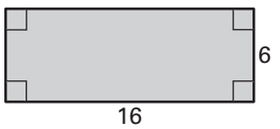
LESSON 11.1

Practice

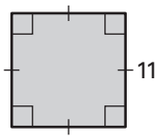
For use with pages 720–726

Find the area of the polygon.

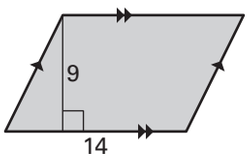
1.



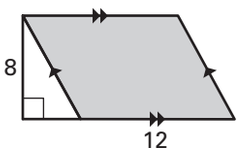
2.



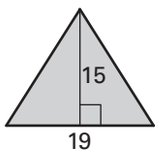
3.



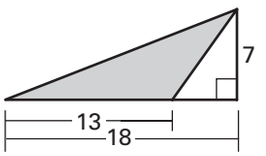
4.



5.



6.



The lengths of the hypotenuse and one leg of a right triangle are given. Find the perimeter and area of the triangle.

7. Hypotenuse: 26 cm; leg: 24 cm

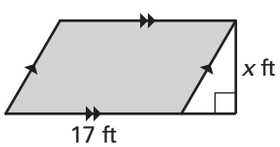
8. Hypotenuse: 50 mm; leg: 14 mm

9. Hypotenuse: 37 ft; leg: 12 ft

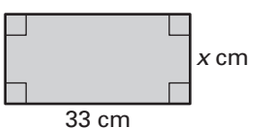
10. Hypotenuse: 85 in.; leg: 77 in.

Find the value of *x*.

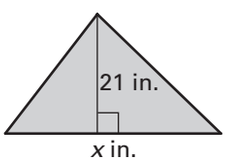
11. $A = 153$ ft^2



12. $A = 528$ cm^2



13. $A = 399$ in.^{2}



Name _____ Date _____

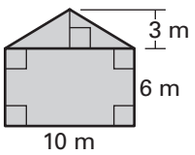
LESSON 11.1

Practice *continued*

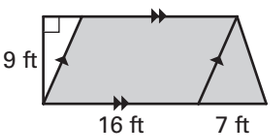
For use with pages 720–726

Find the area of the shaded polygon.

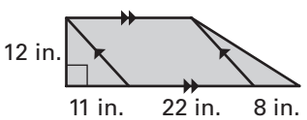
14.



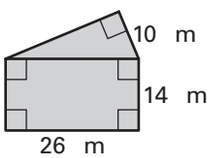
15.



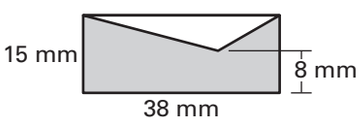
16.



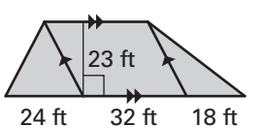
17.



18.

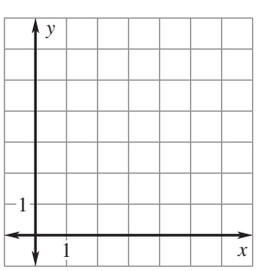


19.

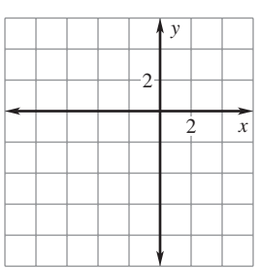


Graph the points and connect them to form a polygon. Find the area of the polygon.

20. $A(2, 2), B(3, 6), C(5, 6), D(4, 2)$



21. $P(-4, -4), Q(-1, -1), R(5, -4)$



Name _____ Date _____

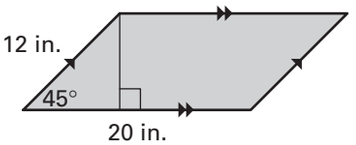
LESSON 11.1

Practice *continued*

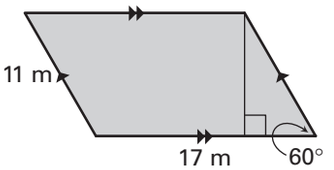
For use with pages 720–726

Find the height and area of the polygon.

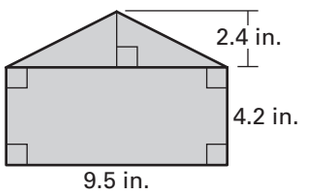
22.



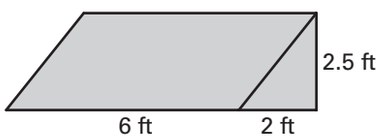
23.



24. Envelopes You have an envelope that is 9.5 inches by 4.2 inches and has a triangular flap with a height of 2.4 inches. What is the area of the envelope shown in the diagram?



25. Floor Tile You have a piece of floor tile in the shape of a parallelogram that has a base of 6 feet and a height of 2.5 feet. You cut a triangular piece of tile with a base of 2 feet to fit next to the other piece, as shown. Find the total area of the tile in square feet and square inches.



26. Painting A painter is painting the back of your garage, which has the measurements shown. The painter can paint 200 square feet per hour and charges $25 per hour. How much will you have to pay if the painter rounds the time spent painting to the nearest half hour?