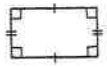
NAME _____ DATE _____ PERIOD ____

1-6

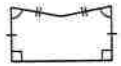
Skills Practice

Polygons

Name each polygon by its number of sides and then classify it as *convex* or *concave* and *regular* or *irregular*.

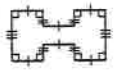
1. 
quadrilateral; convex; irregular

2. 
triangle; convex; regular

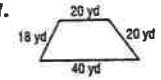
3. 
pentagon; concave; irregular

4. 
heptagon; convex; regular

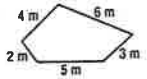
5. 
quadrilateral; convex; irregular

6. 
dodecagon; concave; irregular

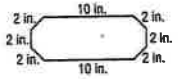
Find the perimeter of each figure.

7. 

98 yd

8. 

20 m

9. 

32 in.

COORDINATE GEOMETRY Find the perimeter of each polygon.

10. triangle ABC with vertices $A(3, 5)$, $B(3, 1)$, and $C(0, 1)$
12 units

11. quadrilateral $QRST$ with vertices $Q(-3, 2)$, $R(1, 2)$, $S(1, -4)$, and $T(-3, -4)$
20 units

12. quadrilateral $LMNO$ with vertices $L(-1, 4)$, $M(3, 4)$, $N(2, 1)$, and $O(-2, 1)$
≈14.3 units

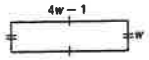
ALGEBRA Find the length of each side of the polygon for the given perimeter.

13. P = 104 millimeters

All are 13 mm.

14. P = 84 kilometers

All are 28 km.

15. P = 88 feet


9 ft, 9 ft, 35 ft, 35 ft

Lesson 1-6

NAME _____ DATE _____ PERIOD ____

1-6

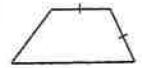
Practice (Average)

Polygons

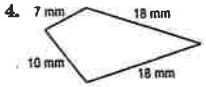
Name each polygon by its number of sides and then classify it as *convex* or *concave* and *regular* or *irregular*.

1. 
hexagon; concave; irregular

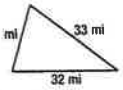
2. 
nonagon; convex; regular

3. 
quadrilateral; convex; irregular

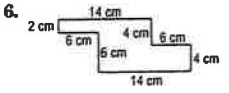
Find the perimeter of each figure.

4. 

53 mm

5. 

86 mi

6. 

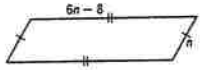
56 cm

COORDINATE GEOMETRY Find the perimeter of each polygon.

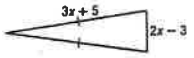
7. quadrilateral $OPQR$ with vertices $O(-3, 2)$, $P(1, 5)$, $Q(6, 4)$, and $R(5, -2)$
≈25.1 units

8. pentagon $STUVW$ with vertices $S(0, 0)$, $T(3, -2)$, $U(2, -5)$, $V(-2, -5)$, and $W(-3, -2)$
≈17.5 units

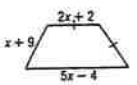
ALGEBRA Find the length of each side of the polygon for the given perimeter.

9. P = 26 inches


3 in., 3 in., 10 in., 10 in.

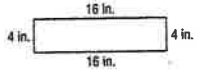
10. P = 39 centimeters


17 cm, 17 cm, 5 cm

11. P = 89 feet


18 ft, 18 ft, 36 ft, 17 ft

SEWING For Exercises 12–13, use the following information.
Jasmine plans to sew fringe around the scarf shown in the diagram.



12. How many inches of fringe does she need to purchase?
40 in.

13. If Jasmine doubles the width of the scarf, how many inches of fringe will she need?
48 in.