Name: _____

Perimeter of a Polygon
Symmetrical shapes

Find the perimeter of each polygon. One or more line of symmetry is marked on each polygon.

a.
8 in
2 in
3 in
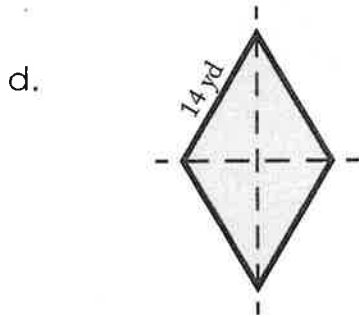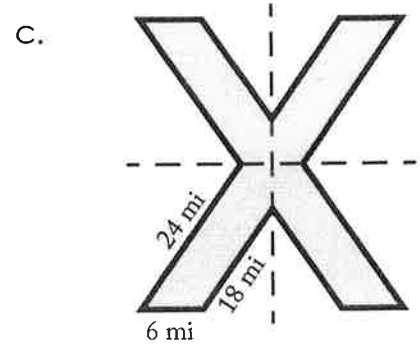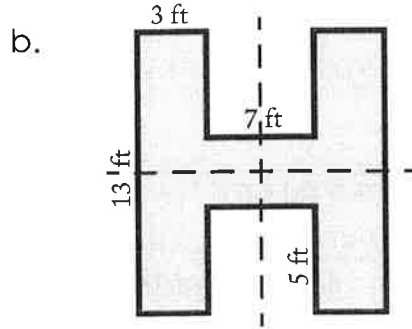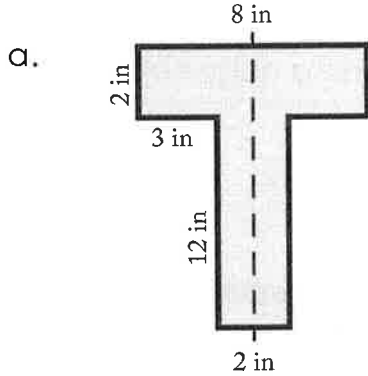12 in
2 in

_____

b.
3 ft
7 ft
13 ft
5 ft

_____

c.
24 mi
18 mi
6 mi

_____

d.
14 yd

_____

e.
24 in

_____

f.
25 ft

_____

g.
10 ft
5 ft
6 ft
10ft
6 ft
2 ft

_____

h.
31 in

_____

i.
6 yd
8 yd
7 yd
6 yd

_____

Area of a Right Triangle
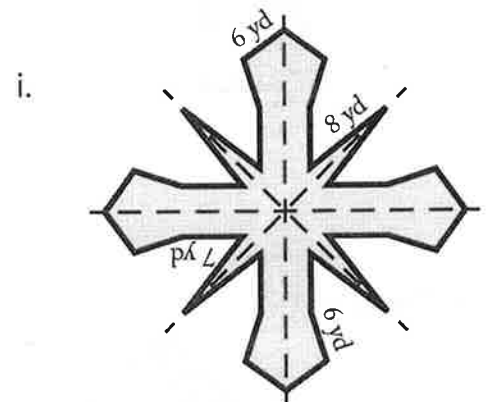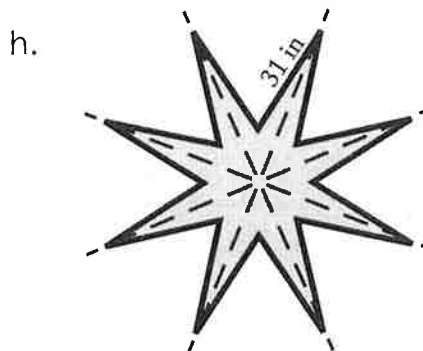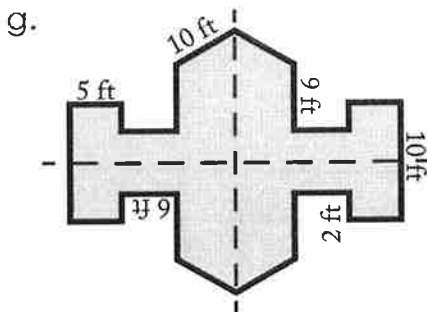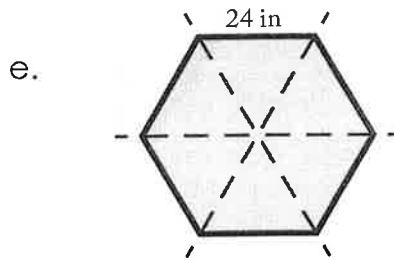
To find the area of a right triangle, use the formula **½ x base x height**.
This formula is often written as **½ x (b x h) = A**.

The triangle pictured here has a base of 10 cm and a height of 8 cm.
b = 10 cm
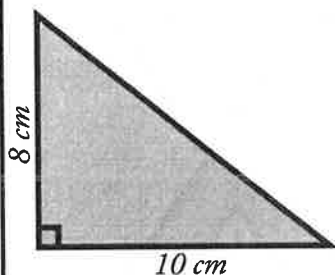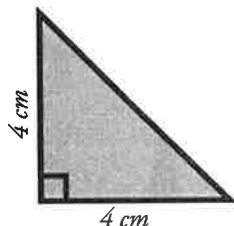**h** = 8 cm
½ x 10 cm x 8 cm = 40 cm^2

Note that the area's unit is written as cm^2.
This is said as "square centimeters" or "centimeters squared".

8 cm

10 cm

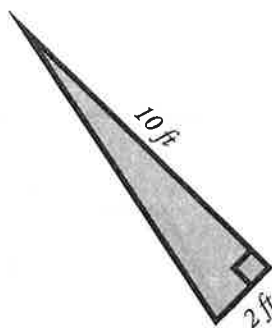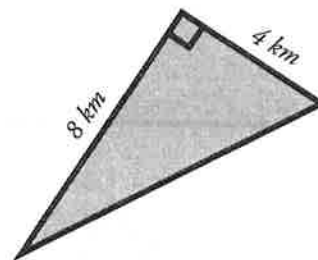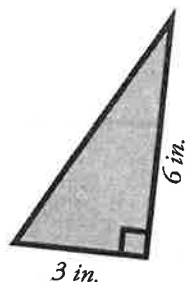Find the area of each triangle.

a.

4 cm
4 cm

b.

10 ft
2 ft

c.

8 km
4 km

_____

d.

6 in.
3 in.

e.

9 mm
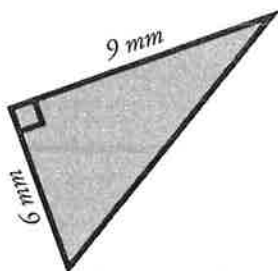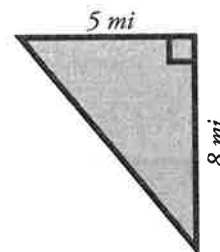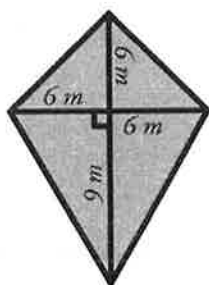*6 mm*

f.

5 mi
8 mi

_____   _____   _____

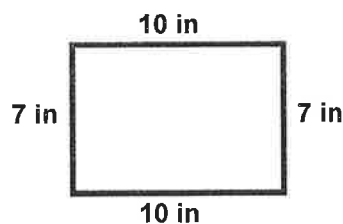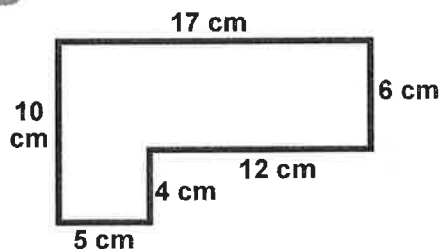**Challenge:** Find the area of the polygon. Use the back if you need work space.

6 m   *6 m*
6 m
9 m

_____

Perimeter

1 Find the perimeter of this triangle.

12 m   8 m
15 m
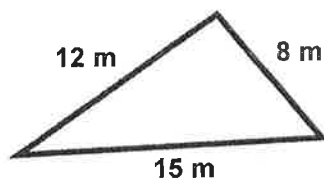
2 Find the perimeter of this rectangle.

10 in
7 in   7 in
10 in

3 Find the perimeter of this polygon.

17 cm
6 cm
10 cm
12 cm
4 cm
5 cm

4 Find the perimeter of this polygon.

8 ft   8 ft
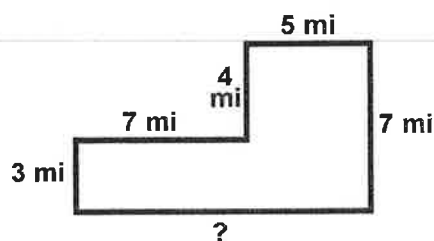8 ft   8 ft
14 ft
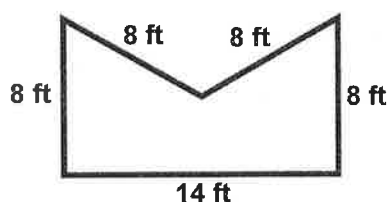
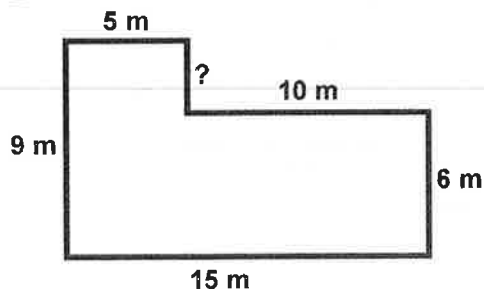**5** Find the perimeter of this **regular** pentagon.

12 km
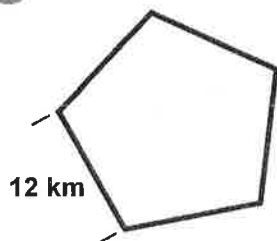
6 Find the perimeter of this **regular** octagon.

| 3 in |
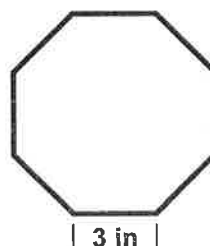
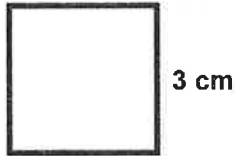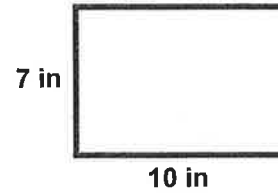**7** Find the perimeter. Use what you do know to find the side you don't know.

5 mi
4 mi
7 mi   7 mi
3 mi
?

8 Find the perimeter.

5 m
?
10 m
9 m
6 m
15 m

math Antics®
Exercises

Name:

Date:

Area

1 Find the area of this square.

3 cm

2 Find the area of this rectangle.

7 in

10 in

3 Find the area of this rectangle.
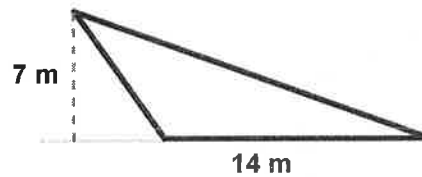
2 km

12 km

4 Find the area of this right triangle.
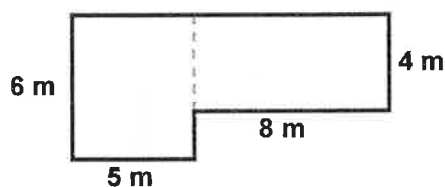
6 ft

11 ft
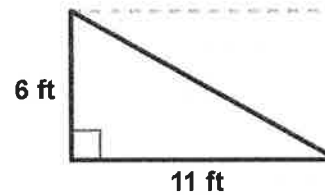
5 Find the area of this acute triangle.

5 m

10 m
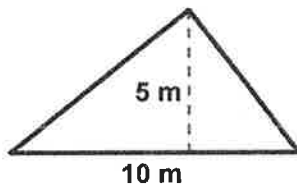
6 Find the area of this obtuse triangle.

7 m

14 m

7 This shape is a combination of two rectangles. What is its area?

6 m

4 m

8 m

5 m

8 This shape is a combination of a triangle and a rectangle. What is its area?

4 m

4 m

10 m