| AWM10 | **Ch.3 Getting Started** | Assignment |

A. **Perimeter:** Find the perimeter of the following polygons:

38 km

57 km

Rectangle

67 cm

22 cm   22 cm

18 cm

Trapezoid

23 m

Square

Perimeter = _____

Perimeter = _____

Perimeter = _____

249 cm   249 cm

203 cm

Isosceles Triangle

134 km

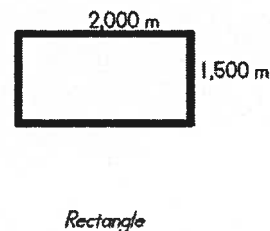23 km

48 km

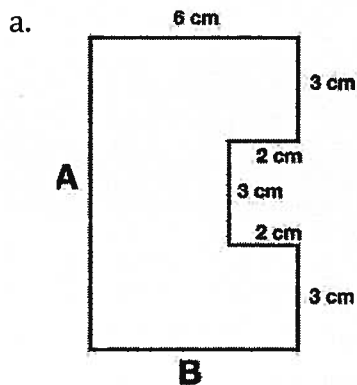23 km

Octagon (Symmetrical)

2,000 m

1,500 m

Rectangle
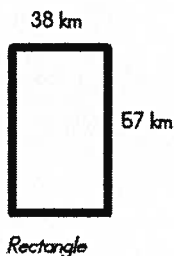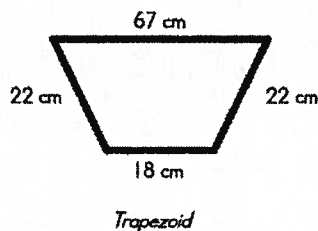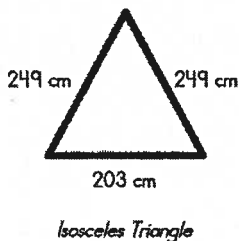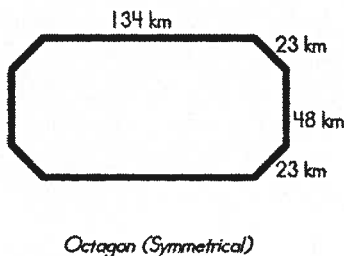
Perimeter = _____

Perimeter = _____

Perimeter = _____

Find the missing side lengths and the perimeter of the following polygons.

a.

6 cm

3 cm

2 cm
3 cm
2 cm

A

3 cm

B

b.

G

7 m   5 m

5 m   1 m   3 m

3 m

10 m

A = _____
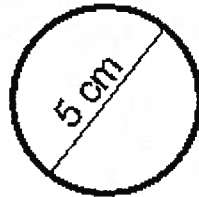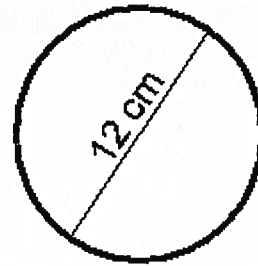
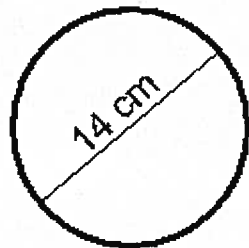B = _____
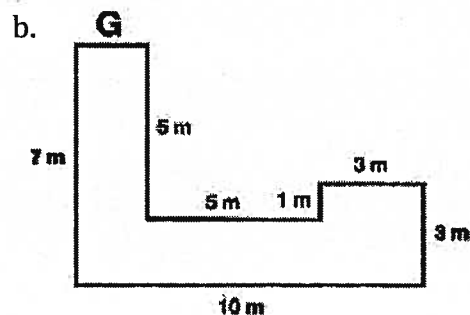
Perimeter = _____

G = _____

Perimeter = _____

B. **Circumference:** Find the circumference of the following circles. Show your work using the diameter or radius formula.
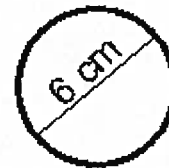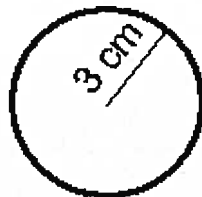
circumference = _____ cm
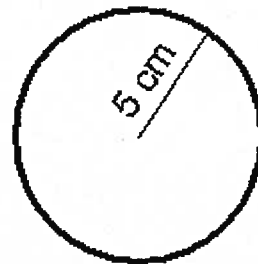
circumference = _____ cm

circumference = _____ cm

circumference = _____ cm

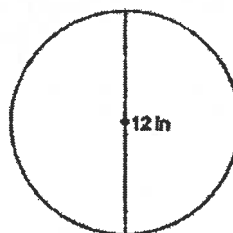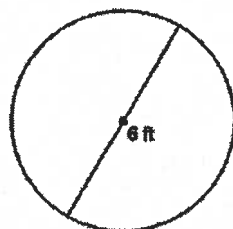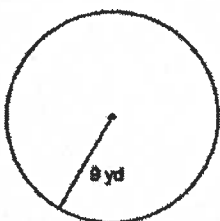circumference = _____ cm

circumference = _____ cm
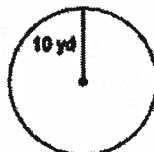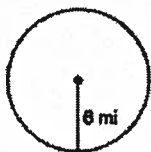
circumference = _____ cm

circumference = _____ cm

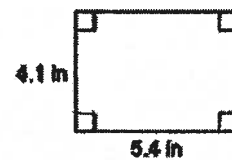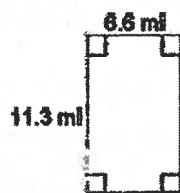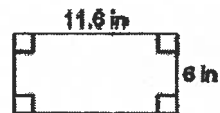**Find the circumference of each circle. Round your answer to the nearest tenth.**
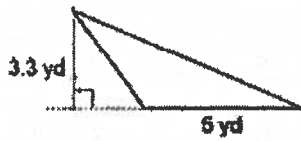
6 mi

10 yd

8 yd

6 ft

8 ft

12 in

Circle with a radius of 8 in.

Circle with a radius of 10 km.

Circle with a diameter of 22 in.

Circle with a diameter of 6 km.

C. **Area:** (Use your data book to find the formulas)

Find the area of each.

Rectangle: 12 m (top), 7 m (left side)

Triangle: 2.1 in (height), 9 in (base)

Triangle: 11 cm (left side), 10.1 cm (slanted height)

Triangle: 3.4 mi (height), 7 mi (base)

Triangle: 3.3 yd (height), 5 yd (base)

Rectangle: 11.6 in (top), 6 in (right side)

Rectangle: 6.6 mi (top), 11.3 mi (left side)

Rectangle: 4.1 in (left side), 5.4 in (bottom)
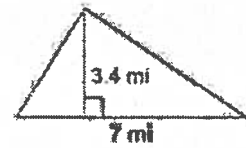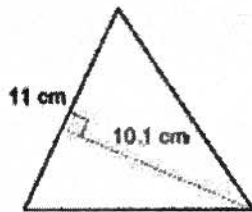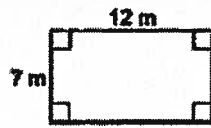
5-1 Skills Practice

Perimeter and Area

Find the perimeter and area for each figure.

1.

15 mm
9 mm
12 mm

2.

10 ft   6 ft   10 ft
16 ft

3.

45 m
75 m

4.

84 mi
126 mi
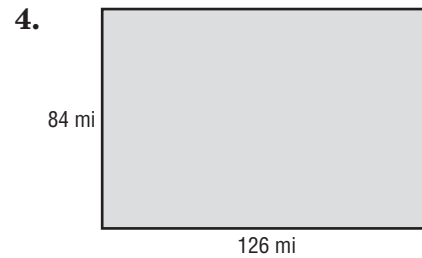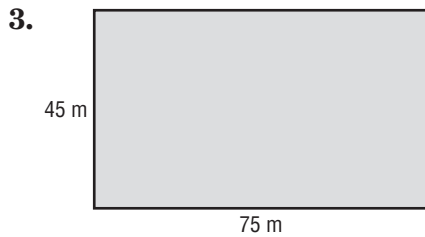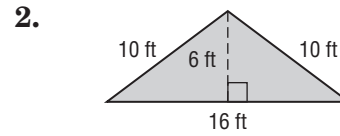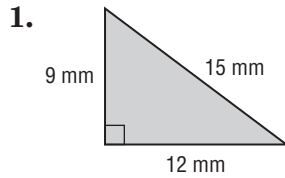
5. a right triangle with legs of 7 inches and 24 inches and a hypotenuse of 25 inches

6. a rectangle that is 21 inches long and 13 inches wide

7. a square that is 25 centimeters on each side

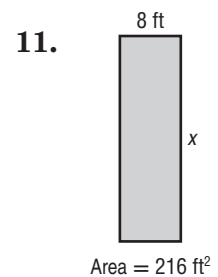**Find the missing dimension for each figure.**

8.
20 in.
x
Perimeter = 208 in.

9.
5 m   11 m
x
Perimeter = 30 m

10.
12 mi   20 mi
x
Area = 96 m^2

11.
8 ft
x
Area = 216 ft^2
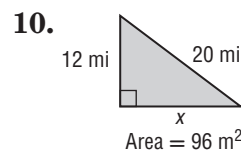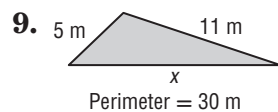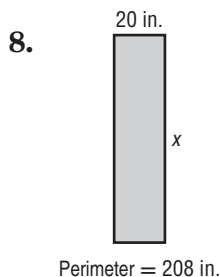
12. The perimeter of a rectangle is 100 centimeters. Its width is 9 centimeters. Find its length.

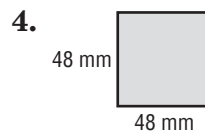**13.** The area of a rectangle is 319 square kilometers. Its width is 11 kilometers. Find its length.

14. The perimeter of a triangle is $37\frac{1}{2}$ yards. Two of the sides each measure $12\frac{1}{8}$ yards. Find the third side.

5-1 Practice

Perimeter and Area

Find the perimeter and area for each figure.

1.

14 cm, 50 cm, 48 cm

2.

60 yd, 36 yd, 75 yd, 45 yd

3.

61 mi, 54 mi

4.

48 mm, 48 mm
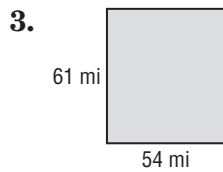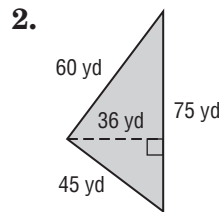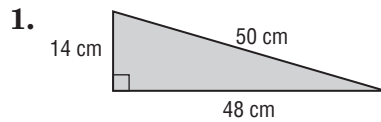
5. a right triangle with legs of 24 feet and 41.57 feet and a hypotenuse of 48 feet

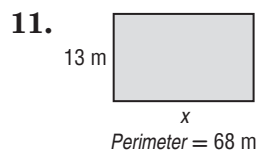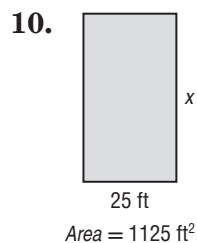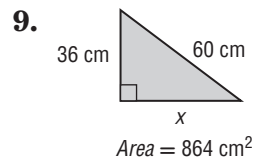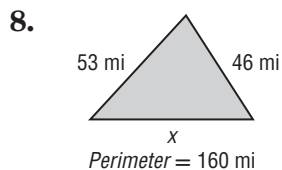**6.** a rectangle that is 92 meters long and 18 meters wide

7. a rectangle that is 30 inches long and 29 inches wide

Find the missing dimension for each figure.

8.

53 mi, 46 mi, x
Perimeter = 160 mi

9.

36 cm, 60 cm, x
Area = 864 cm²

10.

x, 25 ft
Area = 1125 ft²

11.

13 m, x
Perimeter = 68 m

12. GEOMETRY The area of a rectangle is 1260 square inches. Its length is 36 inches. Find the width.

13. GEOMETRY The area of a triangle is 672 square yards. Its base is 42 yards. Find the height.