Area 3.1
Geometry
Find the missing measures in the shapes below to the nearest tenth.

1) Triangle
base = 25 m
height = 49 m
Area =

2) Rectangle
base = 54 in
height = 56 in
Area =

3) Parallelogram
base = 38 cm
height =
Area = 2736 cm^2

4) Triangle
base =
height = 17 mi
Area = 374 mi^2
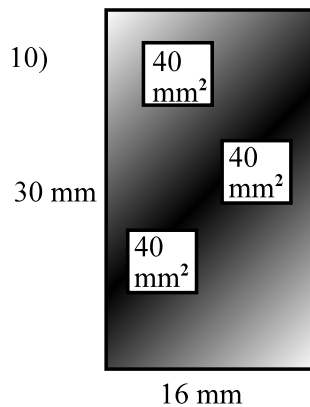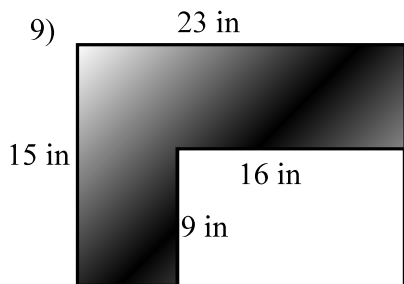
5) If a rectangle has A = 12 yd^2, name two possibilities for its dimensions.

6) Name the dimensions of the square or rectangle with A = 16 m^2, P = 16 m.

Find the area of each figure.

7)

15 m

10 m

25 m

15 m

8) **3 ft**   **9 ft**

6 ft

12 ft

18 ft
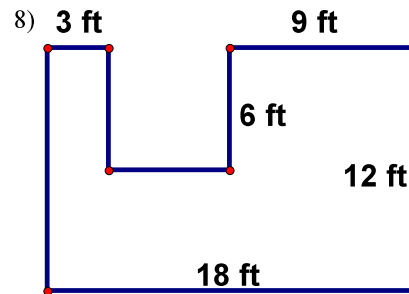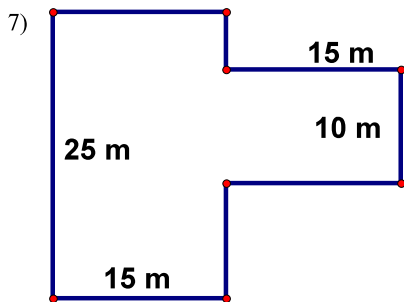
Find the area of the shaded region.

9)   23 in

15 in
          16 in
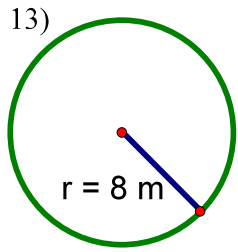
9 in

10)

40 mm^2

40 mm^2

30 mm

40 mm^2

16 mm

11) Sally loves scrapbooking. The scrapbook page is 12 in. x 15 in.
 a. What is the area of the page?

 b. If each picture measures 3 in. square, what is the area of each picture?

 c. How many pictures can Sally put on the page without gaps or overlaps?

 d. If each picture cost $.20 to develop, what is the cost of filling the page?

12) Tom is going to cover his kitchen floor with tile. The kitchen is 12 ft long and 20 ft wide.
 a. What is the area of the floor?

 b. If area of each tile is 1 ft.^{2}, how many tiles will Tom need to cover his floor?

 c. How much will all of the tile cost Tom if each piece costs $1?
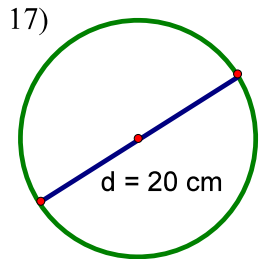
 d. What if each piece costs $3?

Find the area of each circle below in terms of pi and to the nearest tenth.

13)

r = 8 m

14) r = 5 in

15) r = 25 mm

16) r = 61 ft

17)

d = 20 cm

18) d = 12 yds

Find the area of each trapezoid.

19)

6 ft
5 ft
10 ft

20)

18 m
21 m
26m

21)

14in
12 in
3 in

22)

19 cm
28 cm
32 cm