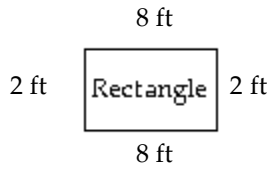


Name _____

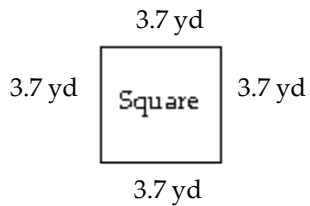
Use a formula for perimeter or area to solve the problem.

1)



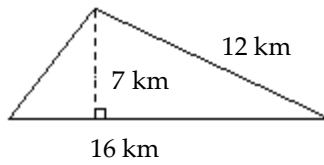
Find the perimeter of the figure.

2)



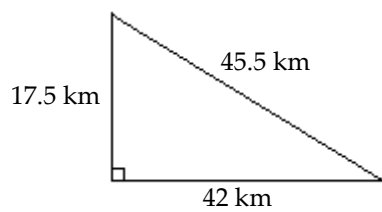
Find the perimeter of the figure.

3)



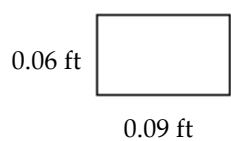
Find the area of the triangle.

4)



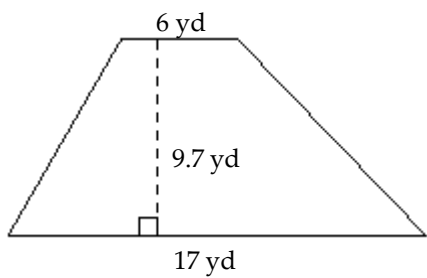
Find the area of the triangle.

5)



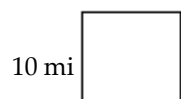
Find the area of the rectangle.

6)



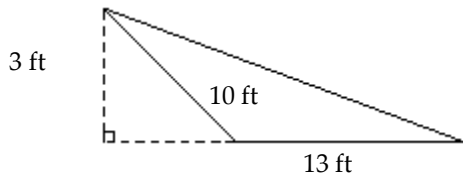
Find the area of the trapezoid.

7)



Find the area of the square.

8)



Find the area of the triangle.

9) The length of a rectangle is 106 in. and the width is 68 in. Find its perimeter.

10) The width of a room is 9 feet, and the area of the room is 108 square feet. Find the room's length.

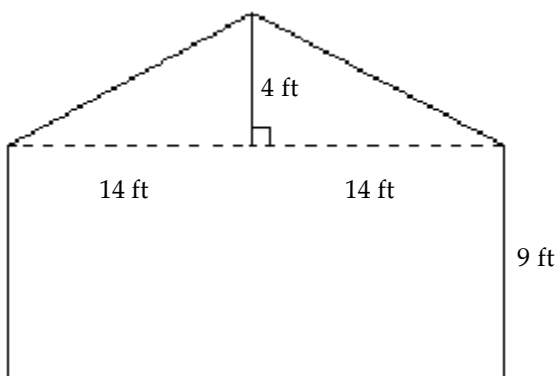
Solve.

11) To trim the edges of a rectangular table cloth, 54 feet of lace are needed. The length of the table cloth is exactly one-half its width. What are the dimensions of the table cloth?

12) A rectangular carpet has a perimeter of 146 inches. The length of the carpet is 47 inches more than the width. What are the dimensions of the carpet?

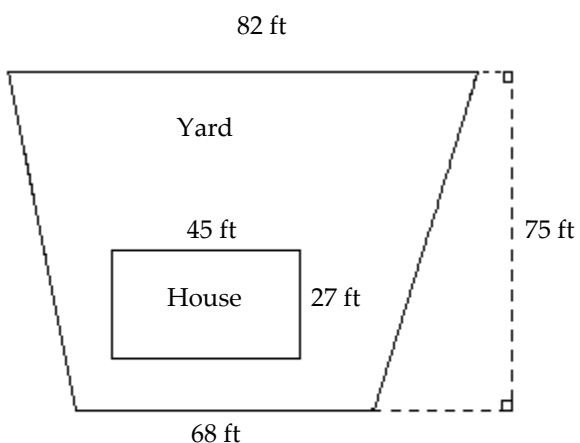
13) The length of a rectangular room is 3 feet longer than twice the width. If the room's perimeter is 186 feet, what are the room's dimensions?

14)



The drawing shows the end of a building that is to be bricked. If the area of the side of a brick used is $\frac{1}{10}$ sq. ft, find the number of bricks needed to completely cover the side of the building.

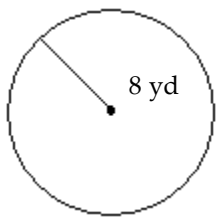
15)



A homeowner wants to know how much grass seed to buy. First the size of the yard must be determined. Use the drawing to determine how many square feet are in the yard.

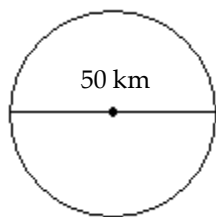
Use the formula for the area or circumference of a circle to solve the problem. Where applicable, express answers in terms of π .

16)



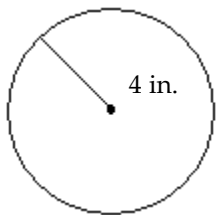
Find the area of the circle.

17)



Give the exact circumference.

18)



Give the exact circumference.

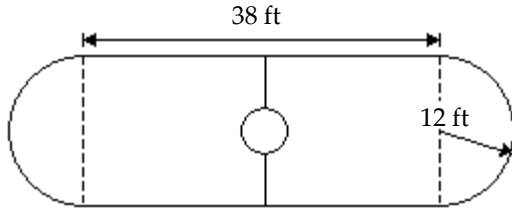
19) The circumference of a circle is 22π meters. Find the circle's radius.

20) The circumference of a circle is 22π meters. Find the circle's diameter.

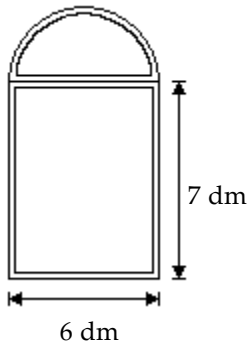
Solve.

21) Which one of the following is a better buy: a 16-inch pizza for \$8 or two 10-inch pizzas for \$7.

22) Find the area of the skating rink. Use $\pi = 3.14$ and round to the nearest tenth.



23) Find the area of the window. Use $\pi = 3.14$ and round to the nearest tenth.

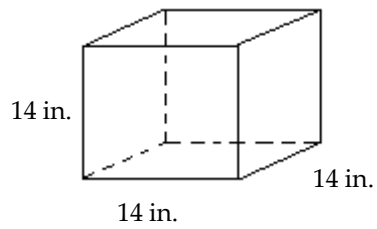


24) The rectangular part of the field shown below is 187 yd long and the diameter of each semicircle is 14 yd. Find the cost of fertilizing the field at \$0.45 per square yard. Use $\pi = 3.14$ and round to the nearest cent.



Find the volume of the figure. Where applicable, express answers in terms of π .

25)



Use the relationship among the three angles of any triangle to solve the problem.

26) Two angles of a triangle are 30° and 30° . Find the third angle.

27) Two angles of a triangle are 30° and 40° . Find the third angle.

28) Two angles of a triangle are 40° and 20° . Find the third angle.

29) Two angles of a triangle are 27° and 101° . Find the third angle.

30) Two angles of a triangle are 36° and 105° . Find the third angle.

31) Two angles of a triangle are 19° and 54° . Find the third angle.

32) One of the base angles of an isosceles triangle is 29° . Find the measures of the other two angles. (An isosceles triangle has two equal base angles.)

- 33) One of the base angles of an isosceles triangle is 40° . Find the measures of the other two angles. (An isosceles triangle has two equal base angles.)
- 34) One of the base angles of an isosceles triangle is 36° . Find the measures of the other two angles. (An isosceles triangle has two equal base angles.)
- 35) One angle of a triangle is 3 times as large as another. The measure of the third angle is 55° greater than that of the smallest angle. Find the measure of each angle.
- 36) One angle of a triangle is 2 times as large as another. The measure of the third angle is 100° greater than that of the smallest angle. Find the measure of each angle.
- 37) One angle of a triangle is 2 times as large as another. The measure of the third angle is 140° greater than that of the smallest angle. Find the measure of each angle.
- 38) A triangle has angles of $(4x)^\circ$, $(3x + 7)^\circ$, and $(2x + 2)^\circ$. Find the measure of each angle.
- 39) A triangle has angles of $(4x)^\circ$, $(3x + 6)^\circ$, and $(2x + 3)^\circ$. Find the measure of each angle.
- 40) A triangle has angles of $(4x)^\circ$, $(3x + 8)^\circ$, and $(2x + 1)^\circ$. Find the measure of each angle.
- 41) Two angles of a triangle are 10° and 30° . Find the third angle.

Find the measure of the indicated angle.

42) Find the measure of the complement of 17° .

43) Find the measure of the complement of 56° .

44) Find the measure of the complement of 47° .

45) Find the measure of the supplement of 60° .

46) Find the measure of the supplement of 55° .

47) Find the measure of the supplement of 52° .

48) Find the measure of the supplement of 110° .

49) Find the measure of the supplement of 139° .

50) Find the measure of the supplement of 159° .

51) The angle's measure is 50° more than that of its complement.

52) The angle's measure is 30° more than that of its complement.

53) The angle's measure is 40° more than that of its complement.

54) The angle's measure is 30° more than that of its supplement.

55) The angle's measure is 70° more than that of its supplement.

56) The angle's measure is 20° more than that of its supplement.

57) The angle's measure is 80° more than triple that of its supplement.

58) The angle's measure is 60° more than triple that of its supplement.

59) The angle's measure is 20° more than triple that of its supplement.

60) The angle's measure is 60° more than that of its complement.

61) The angle's measure is 60° more than that of its supplement.

Answer Key

Testname: 03.3V02

- 1) 20 ft
- 2) 14.8 yd
- 3) 56 km^2
- 4) 367.5 km^2
- 5) 0.0054 ft^2
- 6) 111.55 yd^2
- 7) 100 mi^2
- 8) 19.5 ft^2
- 9) 348 in.
- 10) 12 feet
- 11) length: 9 feet; width: 18 feet
- 12) 60 by 13 inches
- 13) Width = 30 ft; length = 63 ft
- 14) 3080 bricks
- 15) 4410 ft^2
- 16) $64\pi \text{ yd}^2$
- 17) $50\pi \text{ km}$
- 18) $8\pi \text{ in.}$
- 19) 11 m
- 20) 22 m
- 21) 16-in. pizza
- 22) 1364.2 sq. ft
- 23) 56.1 sq. dm
- 24) \$1247.34
- 25) 2744 in.^3
- 26) 120°
- 27) 110°
- 28) 120°
- 29) 52°
- 30) 39°
- 31) 107°
- 32) $29^\circ, 122^\circ$
- 33) $40^\circ, 100^\circ$
- 34) $36^\circ, 108^\circ$
- 35) $25^\circ, 75^\circ, 80^\circ$
- 36) $20^\circ, 40^\circ, 120^\circ$
- 37) $10^\circ, 20^\circ, 150^\circ$
- 38) $40^\circ, 64^\circ, 76^\circ$
- 39) $41^\circ, 63^\circ, 76^\circ$
- 40) $39^\circ, 65^\circ, 76^\circ$
- 41) 140°
- 42) 73°
- 43) 34°
- 44) 43°
- 45) 120°
- 46) 125°
- 47) 128°
- 48) 70°

Answer Key

Testname: 03.3V02

- 49) 41°
- 50) 21°
- 51) 70°
- 52) 60°
- 53) 65°
- 54) 105°
- 55) 125°
- 56) 100°
- 57) 155°
- 58) 150°
- 59) 140°
- 60) 75°
- 61) 120°