

Convert the units.

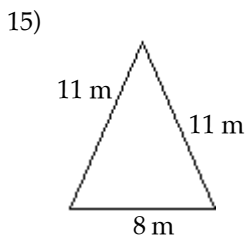
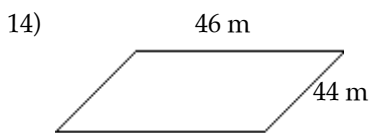
- 1) 53 km = _____ m
- 2) 0.05 m = _____ cm
- 3) 737 mm = _____ cm
- 4) 0.0054349 km = _____ mm
- 5) 156 inches = _____ feet
- 6) 42,240 feet = _____ miles
- 7) 23 yards = _____ feet
- 8) 3520 yd = _____ mi

Choose the most reasonable unit of measure.

- 9) Basketball court length 27 _____ (mm, cm, m, km)
- 10) Paperback book height 21 _____ (mm, cm, m, km)
- 11) The distance from one side of the street to the other 12 _____ (in., ft, yd, mi)

Find the perimeter.

- 12) A square with sides 1 in.
- 13) A rectangle 70 ft by 90 ft

**Find the circumference or arc length. Leave your answer in terms of pi.**

- 16) A circle with diameter 17 ft
- 17) A semicircle with diameter 5 in.

18) An arc with central angle 172 and radius 10 m

Solve the problem.

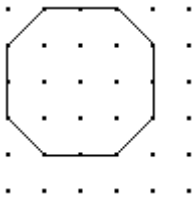
- 19) Mel plans to fence his yard for his new puppy. The yard is a 30 ft by 104 ft rectangle. Fencing costs \$15 per 10 ft section. What is the cost of the fence?
- 20) A figure skater must trace a figure eight on the ice that consists of two perfect circles, each with a radius of 12 feet. How far does the skater go one time around the figure eight? Use 3.14 for π . Round your answer to the nearest tenth.
- 21) Find the side length of a square with the same perimeter as a equilateral triangle with side 9 cm.
- 22) Find the side length of a square with the same perimeter as a circle with radius 5 in. Use 3.14 for π .

Convert the units.

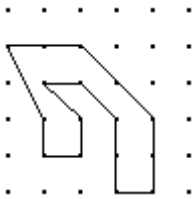
- 23) $2736 \text{ in.}^2 = \underline{\hspace{2cm}} \text{ ft}^2$
- 24) $10 \text{ yd}^2 = \underline{\hspace{2cm}} \text{ ft}^2$
- 25) $450 \text{ mm}^2 = \underline{\hspace{2cm}} \text{ cm}^2$
- 26) $69 \text{ m}^2 = \underline{\hspace{2cm}} \text{ cm}^2$
- 27) $5 \text{ m}^2 = \underline{\hspace{2cm}} \text{ mm}^2$

Find the area if the distance between two adjacent dots in a row or column is one unit.

28)

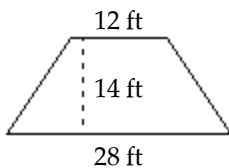


29)

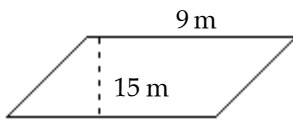


Find the area.

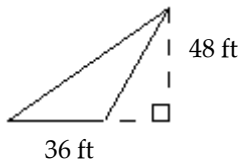
30)



31)



32)



Find the area. Leave your answer in terms of pi.

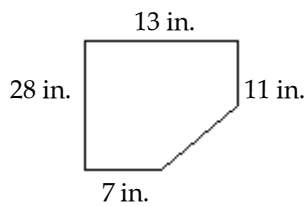
33) A semicircle with diameter 16 cm

34) A circle with circumference 32π m

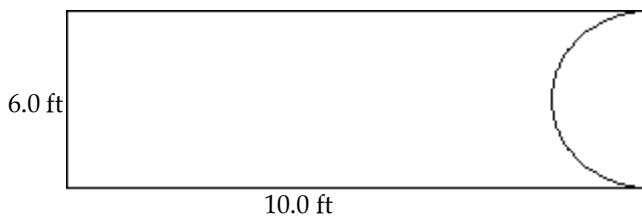
35) A sector with radius 9 mm and interior angle 99°

Find the area.

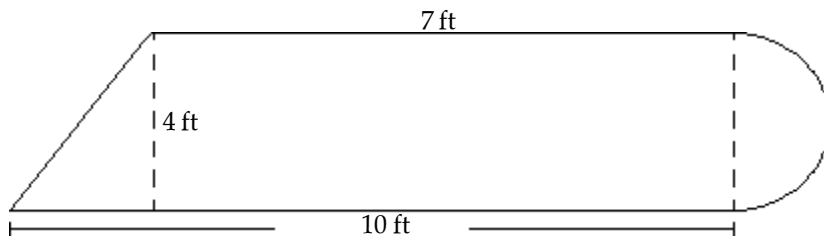
36)



37)



38)



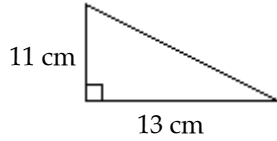
Solve the problem. Use 3.14 for π . Round your answer to the nearest hundredth.

39) How much will it cost to carpet a 14 ft by 22 ft room if carpeting costs \$19.50 per square yard?

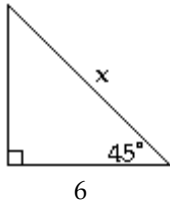
40) Robert has a rectangular garden that is currently 190 ft^2 and has a perimeter of 58 ft. He wants to increase the size of his garden by 4 ft in both directions. What will be the area of his expanded garden?

Solve the problem.

- 41) Find the missing length in the following right triangle.
If necessary, round to the nearest tenth.



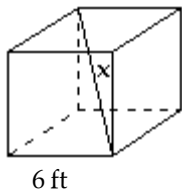
- 42) Find the value for x in the following special right triangle. Use exact values.



- 43) Find the value for x in the following special right triangle. Use exact values.



- 44) Find the value for x in the cube. Use exact values.

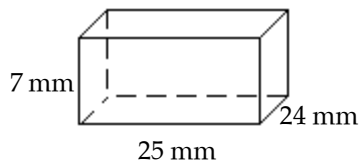


Solve each problem. Round the answer to the nearest tenth, if necessary.

- 45) A boat travels 3 miles south and then 7 miles east. How far is the boat from its starting point?

Solve the problem.

- 46) Find the surface area and the volume of this rectangular solid.



Find the surface area and volume of these figures. Use 3.14 as an approximation for π . Round results to the nearest tenth unit.

- 47) A right circular cylinder with $r = 8$ cm, $h = 4$ cm

48) A sphere with $d = 8.4$ yd

49) A right circular cone with $d = 4$ cm, $h = 11$ cm

Convert the units.

50) $63 \text{ ft}^3 = \underline{\hspace{1cm}} \text{ yd}^3$

51) $2.1 \text{ ft}^3 = \underline{\hspace{1cm}} \text{ in.}^3$

Answer Key

Testname: CH11REVIEW.TST

- 1) 53,000 m
- 2) 5 cm
- 3) 73.7 cm
- 4) 5434.9
- 5) 13
- 6) 8
- 7) 69
- 8) 2
- 9) m
- 10) cm
- 11) yd
- 12) 4 in.
- 13) 320 ft
- 14) 180 m
- 15) 30 m
- 16) 17π ft
- 17) 2.5π in.
- 18) 9.56π m
- 19) \$402.00
- 20) 150.7 ft
- 21) 6.75 cm
- 22) 7.85 in.
- 23) 19
- 24) 90
- 25) 4.5
- 26) 690,000
- 27) 5,000,000
- 28) 14
- 29) 7
- 30) 280 ft^2
- 31) 135 m^2
- 32) 864 ft^2
- 33) $32.00\pi \text{ cm}^2$
- 34) $256\pi \text{ m}$
- 35) $\frac{891}{40}\pi \text{ mm}^2$
- 36) 313 in.^2
- 37) 45.9 ft^2
- 38) 40.3 ft^2
- 39) \$667.33
- 40) 322 ft^2
- 41) 17 cm
- 42) $6\sqrt{2}$ in.
- 43) 8 m
- 44) $6\sqrt{3}$ ft
- 45) 7.6 mi
- 46) S. A. = 1886 mm^2 ; $V = 4200 \text{ mm}^3$
- 47) S. A. = 602.9 cm^2 ; $V = 803.8 \text{ cm}^3$

Answer Key

Testname: CH11REVIEW.TST

48) S. A. = 221.6 yd^2
V = 310.2 yd^3

49) S. A. = 82.8 cm^2 ; V = 46.1 cm^3

50) 2.33

51) 3628.80