

Chapter 3 Review

Name _____

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Convert the following units

1) 6 feet into inches

2) 14 feet into yards

3) 7000 yards into miles

4) 3.4 miles into feet

5) 200 inches into yards, feet, and inches

6) 16 ft into metres

7) 13 kilometres into miles

8) 60cm into inches

9) 400 inches into metres

10) 6200 metres into miles

11) 5 square yards into square feet

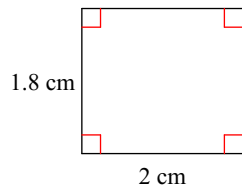
12) 1 000 000 sq yards into square miles

13) 800 square feet into square metres

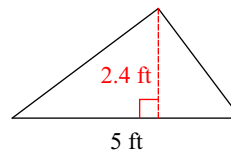
14) 2 km^2 into square yards

Find the area of each.

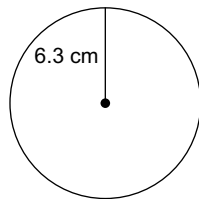
15)



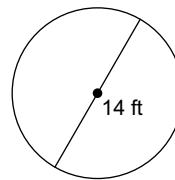
16)



17)

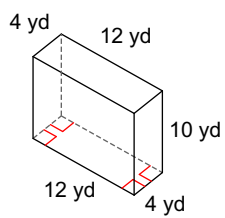


18)

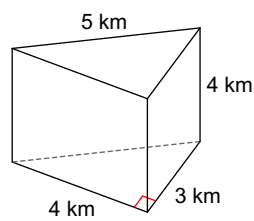


Find the surface area of each figure. Round your answers to the nearest hundredth, if necessary.

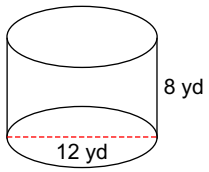
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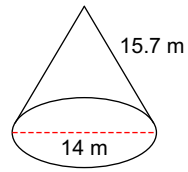
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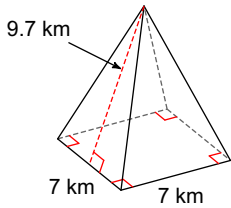
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22)

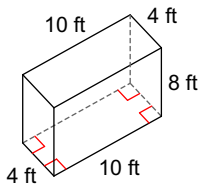


23)

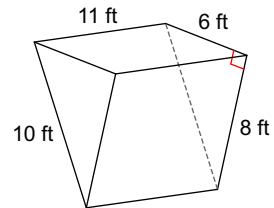


Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

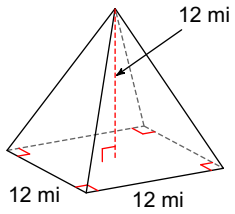
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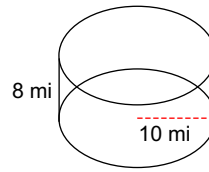
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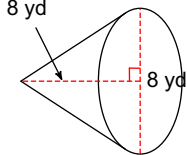
26)



27)



28)



29) Fabric costs \$2.89 per foot. Determine the cost of 6 yards of fabric.

30) Drainage piping costs \$0.69 per foot. Determine the cost for 8 metres.

31) Jimmy needs to put floor boards up around his room. The room is 12' x 10'. The door is 3' wide.

a. Determine the amount of floor board that is needed.

b. The floorboard costs \$2.89 per foot. Determine the cost.

32) Jimmy is tiling a rectangular floor. The floor is 14'x12'.

- a. Determine the area of the floor in square feet.
- b. Each tile covers 4 sq ft. How many tiles does he need?
- c. Each tile costs \$3.99. Determine the total cost.

33) Jimmy needs to paint 5 cylindrical tanks. They have a height of 6' and a diameter of 4'.

- a. Determine the surface area of each tank.
- b. A can of paint covers 200 sq feet. How many cans will he need to paint all 5 tanks with 2 coats of paint?
- c. Each can costs \$26.79. Determine the cost of the paint.

Answers to Chapter 3 Review

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|--|-------------------|---|------------------------|
| 1) 72" | 2) 4.67 yds | 3) 3.98 miles | 4) 17952' |
| 5) 5 yards, 1 ft, 8 inches | 6) 4.88m | 7) 8.07 miles | |
| 8) 23.62" | 9) 10.16m | 10) 3.85 miles | 11) 45 sq feet |
| 12) 0.32 sq miles | 13) $74.32 m^2$ | 14) 2393003 sq yds | 15) $3.6 cm^2$ |
| 16) $6 ft^2$ | 17) $124.7 cm^2$ | 18) $153.9 ft^2$ | 19) $416 yd^2$ |
| 20) $60 km^2$ | 21) $527.79 yd^2$ | 22) $499.2 m^2$ | 23) $184.8 km^2$ |
| 24) $320 ft^3$ | 25) $264 ft^3$ | 26) $576 mi^3$ | 27) $2513.27 mi^3$ |
| 28) $134.04 yd^3$ | 29) \$52.02 | 30) \$18.11 | 31) a. 41' b. \$118.49 |
| 32) a. 168 square foot b. 42 tiles c. \$167.58 | | 33) a. 100.53 sq feet b. 6 cans c. \$160.79 | |