

**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

**Convert as indicated.**

1) 4 ft to centimeters

A) 101.6 cm

B) 157.5 cm

C) 120 cm

D) 10.2 cm

1) \_\_\_\_\_

2) 11 km to miles

A) 17.6 mi

B) 10.406 mi

C) 6.875 mi

D) 11.66 mi

2) \_\_\_\_\_

3) 3.6 m to inches

A) 9.1 in

B) 141.7 in

C) 129.6 in

D) 3.9 in

3) \_\_\_\_\_

4) 0.9 kg to ounces

A) 1.98 oz

B) 40.5 oz

C) 19.8 oz

D) 32.04 oz

4) \_\_\_\_\_

5) 70 L to gallons

A) 18.4 gal

B) 31.5 gal

C) 74.2 gal

D) 16.5 gal

5) \_\_\_\_\_

6) 38 miles/hr to kilometers/hr

A) 23.6 kilometers/hr

C) 60.8 kilometers/hr

B) 35.9 kilometers/hr

D) 40.3 kilometers/hr

6) \_\_\_\_\_

7) 3 lb to grams

A) 1260.0 g

B) 1344.0 g

C) 1362.0 g

D) 1395.0 g

7) \_\_\_\_\_

8) 48 qt to liters

A) 57.6 L

B) 21.8 L

C) 50.9 L

D) 45.6 L

8) \_\_\_\_\_

**Solve the problem.**

- 9) The carpenter needed a board that was 3.9 m long. How many inches will be needed? 9) \_\_\_\_\_  
A) 9.9 in. B) 140.4 in. C) 153.5 in. D) 4.3 in.
- 10) Terry and Theresa are building a room onto their house that will have an area of 190 square meters. How many square feet of carpet will they need to buy to cover the entire addition? Round to the nearest square foot. 10) \_\_\_\_\_  
A) 212 ft<sup>2</sup> B) 171 ft<sup>2</sup> C) 2112 ft<sup>2</sup> D) 18 ft<sup>2</sup>
- 11) One acre is about 0.4 hectare. Use this information to determine the equivalent of 46.1 acres in hectares. 11) \_\_\_\_\_  
A) 7.376 ha B) 46.5 ha C) 18.44 ha D) 115.25 ha
- 12) The man weighed 143 lb. How many kilograms is this? 12) \_\_\_\_\_  
A) 314.6 kg B) 363.2 kg C) 151.6 kg D) 64.35 kg
- 13) Carol and Lu Yi carry a total of 6.0 liters of water as they begin a day hike. How many gallons of water are they carrying, to the nearest tenth? 13) \_\_\_\_\_  
A) 5.7 gal B) 1.6 gal C) 22.7 gal D) 6.4 gal
- 14) You are excavating on your property and one company charges \$74 for each cubic meter of dirt removed. How much will it cost for you to have dirt removed from an area that is 23 ft long, 18 ft wide, and 5 ft deep? 14) \_\_\_\_\_  
A) \$5,106,000.00 B) \$153,180.00 C) \$62.10 D) \$4595.40
- 15) Runners in a 24 km race run how many miles? 15) \_\_\_\_\_  
A) 12.0 mi B) 25.4 mi C) 38.64 mi D) 15 mi

- ①  $\frac{48 \text{ IN}}{1} * \frac{2.54 \text{ CM}}{1 \text{ IN}} = 48 * 2.54 = 121.92 \text{ CM}$
- ②  $\frac{11 \text{ KM}}{1} * \frac{1 \text{ MI}}{1.6 \text{ KM}} = 11/1.6 = 6.875 \text{ MI}$
- ③  $\frac{360 \text{ CM}}{1} * \frac{1 \text{ IN}}{2.54 \text{ CM}} = 360/2.54 = 141.7 \text{ IN}$
- ④  $\frac{900 \text{ G}}{1} * \frac{1 \text{ OZ}}{28 \text{ G}} = 900/28 = 32.14 \text{ OZ}$
- ⑤  $\frac{70 \text{ L}}{1} * \frac{1 \text{ GA}}{3.8 \text{ L}} = 70/3.8 = 18.4 \text{ GA}$
- ⑥  $\frac{38 \text{ MI}}{1} * \frac{1.6 \text{ K}}{1 \text{ MI}} = 38 * 1.6 = 60.8 \text{ K/HR}$
- ⑦  $\frac{48 \text{ OZ}}{1} * \frac{28 \text{ G}}{1 \text{ OZ}} = 48 * 28 = 1344 \text{ G}$
- ⑧  $\frac{48 \text{ QT}}{1} * \frac{0.95 \text{ L}}{1 \text{ QT}} = 48 * 0.95 = 45.6 \text{ L}$
- ⑨  $\frac{390 \text{ CM}}{1} * \frac{1 \text{ IN}}{2.54 \text{ CM}} = 390/2.54 = 153.5 \text{ IN}$
- ⑩  $\frac{190 \text{ M}^2}{1} * \frac{1 \text{ FT}^2}{0.09 \text{ M}^2} = 190/0.09 = 2111 \text{ FT}^2$
- ⑪  $\frac{46.1 \text{ A}}{1} * \frac{0.4 \text{ hA}}{1 \text{ AC}} = 46.1 * 0.4 = 18.44 \text{ hA}$

$$\textcircled{12} \quad \frac{143 \text{ LB}}{1} * \frac{0.45 \text{ KG}}{1 \text{ LB}} = 143 * 0.45 = 64.35 \text{ KG}$$

$$\textcircled{13} \quad \frac{6.0 \text{ L}}{1} * \frac{1 \text{ GA}}{3.8 \text{ L}} = 6.0 / 3.8 = 1.6 \text{ GA}$$

$$\textcircled{14} \quad \frac{2070 \text{ FT}^3}{1} * \frac{0.03 \text{ m}^3}{1 \text{ FT}} = 2070 * 0.03 = 6.21 \text{ m}^3$$
$$6.21 * 74 = \$4595.40$$

$$\textcircled{15} \quad \frac{24 \text{ km}}{1} * \frac{1 \text{ mi}}{1.6 \text{ km}} = 24 / 1.6 = 15 \text{ mi}$$