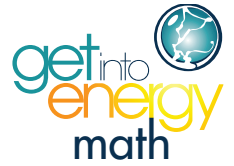


Name: _____ Date: _____



Get Into Energy Math
Student Quiz 15
Customary Metric Conversions

1. Susan is working with a line crew lowering an underground network protector into a vault. The network protector weighs 1,250 pounds. How would Susan report the weight of the network protector in tons?

- A. 0.625 tons
- B. 0.125 tons
- C. 1,500,000 tons
- D. 625 tons

2. Express 404.6 inches as yards.

- A. 34 yd
- B. 11.5 yd
- C. 202.3 yd
- D. 11.24 yd

3. Express 51 inches as feet.

- A. 5.67 ft
- B. 4.25 ft
- C. 612 ft
- D. 4.5 ft

4. Solve the following: $10\text{ ft } 7\text{ in} - 3\text{ ft } 4\text{ in}$

- A. 7 ft
- B. 7 ft 11 in
- C. 7 ft 3 in
- D. 20 ft 11 in

5. Express 504 square inches as square feet.

- A. 42 ft^2
- B. $72,576 \text{ ft}^2$
- C. 3.7 ft^2
- D. 3.5 ft^2

6. Express 0.275 square miles as acres.

- A. 170 ac
- B. 0.023 ac
- C. 176 ac
- D. 11,979 ac

7. Express 0.7 cubic feet as cubic inches.

- A. $1,210 \text{ in}^3$
- B. 101 in^3
- C. $1,217 \text{ in}^3$
- D. 8 in^3

8. Express 0.20 gallons as pints.

- A. 0.03 pt
- B. 0.8 pt
- C. 1 pt
- D. 1.6 pt

9. Express 15.3 gallons as quarts.

- A. 124.4 qt
- B. 61.2 qt
- C. 7.15 qt
- D. 61.9 qt

10. Express 0.06 pounds as ounces.

- A. 1.92 oz
- B. 0.96 oz
- C. 0.90 oz
- D. 0.24 oz

11. Express 600 cubic feet/second as cubic feet/hour.

- A. 16.7 ft³/hr
- B. 36,000 ft³/hr
- C. 2,160,000 ft³/hr
- D. 2,000,000 ft³/hr

12. Express 1,728 cubic inches/second as cubic feet/hour.

- A. 2,423 ft³/hr
- B. 1,728 ft³/hr
- C. 3,600 ft³/hr
- D. 60 ft³/hr

13. Express 23 meters as centimeters.

- A. 0.23 cm
- B. 2,300 cm
- C. 230 cm
- D. 230 m

14. Express 372.5 meters as kilometers.

- A. 372,500 km
- B. 37.25 km
- C. 0.3725 m
- D. 0.3725 km

15. Express 14,660 square centimeters as square meters.

- A. 1.466 m^2
- B. 146.6 m^2
- C. $146,600,000 \text{ m}^2$
- D. 0.1466 m^2

16. Express 0.7 square decimeters as square millimeters.

- A. 0.00007 mm^2
- B. 700 mm^2
- C. $7,000 \text{ mm}^2$
- D. 0.007 mm^2

17. Express 2,400 cubic millimeters as cubic centimeters.

- A. 0.00024 cm^3
- B. 240 cm^3
- C. 2.4 cm^3
- D. 0.24 cm^3

18. Express 60,000 cubic centimeters as cubic meters.

- A. 60 m^3
- B. 0.006 m^3
- C. 0.06 m^3
- D. 6 m^3

19. Express 93.4 milliliters as cubic centimeters.

- A. 934 cm^3
- B. 0.00934 cm^3
- C. 0.934 cm^3
- D. 93.4 cm^3

20. Express 0.06 liter as milliliters.

- A. 60 mL
- B. 0.000006 mL
- C. 0.6 mL
- D. 6 mL

21. Express 4.75 grams as milligrams.

- A. 0.00475 mg
- B. 4,750 mg
- C. 47.5 mg
- D. 475 mg

22. Express 148 grams/square centimeter as grams/square millimeter.

- A. 0.148 g/mm^2
- B. 14.8 g/mm^2
- C. 1.48 g/mm^2
- D. $14,800 \text{ g/mm}^2$

23. Express 0.90 grams/square millimeter as milligrams/square centimeter.

- A. 9 mg/cm^2
- B. 90 mg/cm^2
- C. $90,000 \text{ g/mm}^2$
- D. $90,000 \text{ mg/cm}^2$

24. Express 6.75 feet as centimeters.

- A. 205.74 cm
- B. 205 cm
- C. 0.221 cm
- D. 208 cm

25. Convert 1,892.8 milliliters to quarts.

- A. 1.5 qt
- B. 2.2 qt
- C. 2 qt
- D. 1 qt