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 ft 7 in – 3 ft 4 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 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 in^3
B. 101 in^3
C. 1,217 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 ft^3/hr
B. 36,000 ft^3/hr
C. 2,160,000 ft^3/hr
D. 2,000,000 ft^3/hr

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

A. 2,423 ft^3/hr
B. 1,728 ft^3/hr
C. 3,600 ft^3/hr
D. 60 ft^3/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 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 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 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 g/mm^2
D. 90,000 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