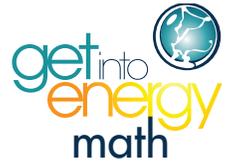


Name: \_\_\_\_\_ Date: \_\_\_\_\_



**Get Into Energy Math**  
**Student Quiz 14**  
**Customary Metric Conversions**

1. Harry's line crew is measuring the distance for an overhead line job. The line crew determined they needed  $\frac{1}{2}$  a mile of wire for the job. Since the wire spool is measured in feet, how many feet of wire would the crew have to get from the warehouse to complete the wire pulling job?

- A. 5,280 ft
- B. 2,500 ft
- C. 2,640 ft
- D. 1,760 ft

2. Wanda is taking measurements on a circuit. She has a measurement of 250 milliamps. How many amps would Wanda report for her measurement?

- A. 0.250 amps
- B. 2,500 amps
- C. 250,000 amps
- D. 2.50 amps

3. Ned is completing a splice on an underground cable. When finished, the splice measures 15 centimeters. How long is the splice in millimeters?

- A. 1.5 mm
- B. 1,500 mm
- C. 0.0015 mm
- D. 150 mm

4. Fran is working on completing a splice. The directions for the splice say she needs to remove 5 inches of the cable jacket prior to starting the splice, but her ruler measures in centimeters. How many centimeters does Fran have to cut the cable jacket prior to starting the splice?

- A. 15.0 cm
- B. 12.5 cm
- C. 12.7 cm
- D. 1.27 cm

5. Tyler is a line helper checking the engine oil in the district's line trucks. The oil container is marked in liters. Tyler has added 6 liters of oil to the trucks. How many gallons of oil has Tyler added to the line trucks?

- A. 1.58 gal
- B. 1.46 gal
- C. 1.82 gal
- D. 2.05 gal

6. Yolanda is working with a gas crew lowering a steel plate over an open trench in a roadway. The plate weights 350 pounds. How would Yolanda report the weight of the plate in tons?

- A. 0.167 tons
- B. 0.175 tons
- C. 5.71 tons
- D. 0.257 tons

7. Jim's crew is removing condensation from drip traps in several gas lines. The crew removed a total of 15 pints from several drip traps. How many gallons of water should the gas crew report was removed from the gas lines?

- A. 3.25 gal
- B. 3 gal
- C. 2 gal
- D. 1.88 gal

8. Jack is adding oil to a generator being used for temporary power on a new construction site. Jack added 1.5 liters to the generator. How many milliliters of oil did Jack add?

- A. 150 mL
- B. 1,000 mL
- C. 1,500 mL
- D. 1.5 mL

9. Fran is working on completing a pipe fusion. The directions for the fusion require that the pipe be inserted 1.5 inches into the coupling. Her ruler measures in centimeters. How many centimeters does Fran have to insert the plastic pipe into the coupling?

- A. 38.1 cm
- B. 3.07 cm
- C. 3.81 cm
- D. 0.38 cm

10. Enrique is measuring the amount of low-pressure pipe needed for a new construction project. The reels of pipe contain 100 meters each. How many feet of low-pressure pipe are on each reel?

- A. 300 ft
- B. 333 ft
- C. 328 ft
- D. 330 ft

11. Alice is checking the pressure in a 0.5 psi piping system. A 0.5 psi system is equal to 0.0344 bars of pressure. Alice needs to convert bars to millibars. What pressure would Alice report as the system pressure in millibars?

- A. 344 millibars of pressure
- B. 3.44 millibars of pressure
- C. 34.4 millibars of pressure
- D. 0.0344 millibars of pressure

12. Express 4,928 yards as miles.

- A. 0.93 mi
- B. 2.5 mi
- C. 2.8 mi
- D. 1,642 mi

13. Express 1.45 miles as rods.

- A. 7,800 rods
- B. 464 rods
- C. 0.004 rods
- D. 480 rods

14. Express 1,600 acres as square miles.

- A. 1,024,000 mi<sup>2</sup>
- B. 2.8 mi<sup>2</sup>
- C. 1.6 mi<sup>2</sup>
- D. 2.5 mi<sup>2</sup>

15. Express 0.36 cubic yards as cubic feet.

- A. 9.72 ft<sup>3</sup>
- B. 0.037 ft<sup>3</sup>
- C. 1.08 ft<sup>3</sup>
- D. 3.24 ft<sup>3</sup>

16. Express 7.025 pounds/square inch as pounds/square foot.

- A. 0.049 lbs/ft<sup>2</sup>
- B. 84 lbs/ft<sup>2</sup>
- C. 1,012 lbs/ft<sup>2</sup>
- D. 998 lbs/ft<sup>2</sup>

17. Express 0.90 cubic feet as gallons.

- A. 0.12 gal
- B. 6.75 gal
- C. 207.9 gal
- D. 6 gal

18. Express 302 decimeters as kilometers.

- A. 30.2 km
- B. 3,020 km
- C. 0.0302 km
- D. 0.302 km

19. Express 2.08 square decimeters as square centimeters.

- A.  $0.208 \text{ cm}^2$
- B.  $20.8 \text{ cm}^2$
- C.  $2.08 \text{ cm}^2$
- D.  $208 \text{ cm}^2$

20. Express 0.106 cubic decimeters as cubic millimeters.

- A.  $106,000 \text{ mm}^3$
- B.  $0.0106 \text{ mm}^3$
- C.  $1,060 \text{ mm}^3$
- D.  $1.06 \text{ mm}^3$

21. Express 0.75 cubic meters as liters.

- A. 0.00075 L
- B. 750 L
- C. 75 L
- D. 710 L

22. Express 23,000 milligrams as grams.

- A. 11,500 g
- B. 230 g
- C. 23 g
- D. 23,000,000 g

23. Express 18.75 square meters as square feet.

- A.  $1.74 \text{ ft}^2$
- B.  $20.18 \text{ ft}^2$
- C.  $2,018 \text{ ft}^2$
- D.  $201.8 \text{ ft}^2$

24. Express 853.25 kilometers as miles.

- A. 0.8532 mi
- B. 530.2 mi
- C. 5.32 mi
- D. 53.02 mi

25. Express 369.5 cubic centimeters as fluid ounces.

- A. 10,927 oz
- B. 1,249 oz
- C. 12.49 oz
- D. 12.85 oz