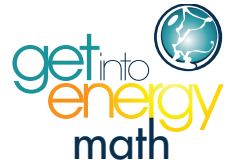


Name: _____ Date: _____



Get Into Energy Math
Quiz 14 Answer Key
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 - Correct Answer**
- 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 - Correct Answer**
- 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 - Correct Answer**

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 - Correct Answer

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 - Correct Answer

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 - Correct Answer

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 - Correct Answer

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 - Correct Answer

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 - Correct Answer

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 - Correct Answer**
- 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 - Correct Answer**
- 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 - Correct Answer**
- D. 1,642 mi

13. Express 1.45 miles as rods.

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

14. Express 1,600 acres as square miles.

A. 1,024,000 mi²

B. 2.8 mi²

C. 1.6 mi²

D. 2.5 mi² - Correct Answer

15. Express 0.36 cubic yards as cubic feet.

A. 9.72 ft³ - Correct Answer

B. 0.037 ft³

C. 1.08 ft³

D. 3.24 ft³

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

A. 0.049 lbs/ft²

B. 84 lbs/ft²

C. 1,012 lbs/ft² - Correct Answer

D. 998 lbs/ft²

17. Express 0.90 cubic feet as gallons.

A. 0.12 gal

B. 6.75 gal - Correct Answer

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 - Correct Answer

D. 0.302 km

19. Express 2.08 square decimeters as square centimeters.

A. 0.208 cm^2

B. 20.8 cm^2

C. 2.08 cm^2

D. 208 cm^2 - Correct Answer

20. Express 0.106 cubic decimeters as cubic millimeters.

A. $106,000 \text{ mm}^3$ - Correct Answer

B. 0.0106 mm^3

C. $1,060 \text{ mm}^3$

D. 1.06 mm^3

21. Express 0.75 cubic meters as liters.

A. 0.00075 L

B. 750 L - Correct Answer

C. 75 L

D. 710 L

22. Express 23,000 milligrams as grams.

A. 11,500 g

B. 230 g

C. 23 g - Correct Answer

D. 23,000,000 g

23. Express 18.75 square meters as square feet.

A. 1.74 ft²

B. 20.18 ft²

C. 2,018 ft²

D. 201.8 ft² - Correct Answer

24. Express 853.25 kilometers as miles.

A. 0.8532 mi

B. 530.2 mi - Correct Answer

C. 5.32 mi

D. 53.02 mi

25. Express 369.5 cubic centimeter as fluid ounces.

A. 10,927 oz

B. 1,249 oz

C. 12.49 oz - Correct Answer

D. 12.85 oz