

Name _____ Date _____

Power Standard #6

Practice Test

1) Liter

- a. A metric unit that is used to measure capacity
- b. A metric unit that is used to measure lengths or distances
- c. A metric unit that is used to measure weight
- d. A metric unit that is used for cats and kittens



2) Gram

- a. A metric unit that is used to measure capacity
- b. A metric unit that is used to measure lengths or distances
- c. A metric unit that is used to measure weight
- d. A metric unit that is used for crackers

3) Meter

- a. A metric unit that is used to measure capacity
- b. A metric unit that is used to measure lengths or distances
- c. A metric unit that is used to measure weight
- d. A metric unit that is used for meteors

4) Metric System

- a. A system of measurement that uses decimals and is based on liters, grams, and meters.
- b. A system of measurement that uses decimals and is based on gallons, quarts, pints, and cups.
- c. A system of measurement that never uses decimals and is based on liters, grams, and meters.
- d. A system of measurement that uses decimals and is liters, gallons, and miles.

5) U.S. Customary

- a. A system of measurement that uses decimals and is based on liters, grams, and meters.
- b. A system of measurement that uses decimals and is based on gallons, quarts, pints, and cones.
- c. A system of measurement used by the United States that is not based on decimals.
- d. A system of measurement used by the United States that is based on decimals.

6) At the Accademia Gallery, you can admire from a short distance the perfection of the most famous statue in Florence and, perhaps, in all the world: Michelangelo's *David*. This astonishing Renaissance sculpture was created between 1501 and 1504 and stands 4.2672 meters tall. How tall is the statue in *centimeters*?

7) The iPhone 6 is 6.99 mm thick. How thick is the phone in *meters*?

8) The width of an NFL football field is 160 feet. The width of a Canadian football field is wider with a distance of .05944 kilometers. How wide is a Canadian Football League's field in *centimeters*?

9) Mr. Jones likes brown mustard. How many *grams* will he have if he buys 4 jars of brown mustard that are 3.15 kg each?

10) Mrs. Crumling bought a 12 pack of Mountain Dew for her party. Each can of Dew contains 35.5 centiliters of soda. How many *liters* does each can hold?

11) Mrs. Shields bought three, 2 liter bottles of soda. How many total milliliters of soda did she buy?

12) A walk-in freezer contains 114 pounds, 10 ounces of ice. What is the weight of the ice in *ounces*?

13) Mrs. D caught a fish that was 851 ounces. How much did her fish weight in *pounds and ounces*?

14) Mr. Renfro's swimming pool is 148 inches long. How long is his driveway in *feet and inches*?

15) Mrs. Crumling has a tree in her front yard that's 29 feet, 10 inches. How tall is the tree just in *inches*?

16) A football field in the National football League (NFL) is about 53 yards wide. How wide is the field in *feet*? Show your work.

- a. 150 feet
- b. 17.6 feet
- c. 159 feet
- d. 176 feet



17) A loaded tractor and trailer measures 16 feet, 4 inches. If the big truck goes under a bridge with a clearance of 19 feet, 2 inches, *how much space* will be between the truck and the bridge?

18) Mr. Renfro used 64 gallons of water on his yard on Friday and 29 gallons on Saturday. What is the total number of *quarts* of water Mr. Renfro used on his yard? (Hint: 1 gallon = 4 quarts)

19) A recipe uses $1\frac{1}{2}$ cups of peppers with every pound of meat. What is the total number of *cups* of peppers a cook should use with 52 ounces of meat?

20) Mr. Renfro made a chart about King Henry. Where did King Henry live and die?

21) What do the letters *KC* help you remember?



22) What does the *large green mug* help you remember?

23) When you hear the word liter, you should think of:

- a. lengths, distances, heights
- b. weights
- c. liquids; capacity
- d. trash on the street

24) When you hear the word gram, you should think of:

- a. lengths, distances, heights
- b. weights; heaviness
- c. liquids; capacity
- d. cereal

25) When you hear the word meter, you should think of:

- a. lengths, distances, heights
- b. weights
- c. liquids
- d. shooting stars

Answers:

1) Liter

- a. A metric unit that is used to measure capacity
- b. A metric unit that is used to measure lengths or distances
- c. A metric unit that is used to measure weight
- d. A metric unit that is used for cats and kittens

2) Gram

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4.2672 meters

42.672 decimeters

426.72 centimeters

7) The iPhone 6 is 6.99 mm thick. How thick is the phone in *meters*?

.00699 meters

.0699 dm

.699 cm

6.99 mm

8) The width of an NFL football field is 160 feet. The width of a Canadian football field is wider with a distance of .05944 kilometers. How wide is a Canadian Football League's field in *centimeters*?

.05944 km

.5944 hm

5.944 Dm

59.44 m

594.4 dm

5,944 cm

9) Mr. Jones likes brown mustard. How many *grams* will he have if he buys 4 jars of brown mustard that are 3.15 kg each?

3.15 kg

31.5 hg

315 Dg

3,150 grams x 4 = 12,600 grams

10) Mrs. Crumling bought a 12 pack of Mountain Dew for her party. Each can of Dew contains 35.5 centiliters of soda. How many *liters* does each can hold?

.355 L

3.55 dl

35.5 cl

11) Mrs. Shields bought three, 2 liter bottles of soda. How many total milliliters of soda did she buy?



$$2 + 2 + 2 = 6 \text{ Liters}$$

$$6 \text{ Liters} = 6,000 \text{ ml}$$

12) A walk-in freezer contains 114 pounds, 10 ounces of ice. What is the weight of the ice in *ounces*?

$$114 \times 16 + 10 = 1,834 \text{ ounces}$$

13) Mrs. D caught a fish that was 851 ounces. How much did her fish weight in *pounds and ounces*?

$$851 \div 16 = 53.1875 \text{ pounds}$$

$$.1875 \times 16 = 3 \text{ ounces}$$

$$53 \text{ lbs. } 3 \text{ oz.}$$

14) Mr. Renfro's swimming pool is 148 inches long. How long is his driveway in *feet and inches*?

$$148 \div 12 = 12.333333 \text{ feet}$$

$$.3333333 \times 12 = 4 \text{ inches}$$

$$12' 4''$$

15) Mrs. Crumling has a tree in her front yard that's 29 feet, 10 inches. How tall is the tree just in *inches*?

$$29 \times 12 = 348 \quad 348 + 10 = 349''$$

16) A football field in the National football League (NFL) is about 53 yards wide. How wide is the field in *feet*? Show your work.

- a. 150 feet
- b. 17.6 feet
- c. 159 feet
- d. 176 feet

$$53 \times 3 = 159 \text{ feet}$$



17) A loaded tractor and trailer measures 16 feet, 4 inches. If the big truck goes under a bridge with a clearance of 19 feet, 2 inches, *how much space* will be between the truck and the bridge?

You must borrow a foot (12 inches)

$$\begin{array}{r} 18 \quad 14 \\ \cancel{19} \quad \cancel{2} \\ - 16 \quad 4 \\ \hline 2' \quad 10'' \end{array}$$

18) Mr. Renfro used 64 gallons of water on his yard on Friday and 29 gallons on Saturday. What is the total number of *quarts* of water Mr. Renfro used on his yard? (Hint: 1 gallon = 4 quarts)

$$64 + 29 = 93 \text{ gallons} \quad 93 \times 4 = 372 \text{ quarts}$$

19) A recipe uses $1\frac{1}{2}$ cups of peppers with every pound of meat. What is the total number of *cups* of peppers a cook should use with 52 ounces of meat?

$$52 \div 16 = 3\frac{1}{4} \text{ (3.25) pounds} \quad 3\frac{1}{4} \times 1\frac{1}{2} = \frac{13}{4} \times \frac{3}{2} = \frac{39}{8} = 4\frac{7}{8} \text{ cups}$$

20) Mr. Renfro made a chart about King Henry. Where did King Henry live and die?

Kansas City



21) What do the letters *KC* help you remember?

That Deka comes before deci.

22) What does the *large green mug* help you remember?

The metric system's basics units: **liters, grams, and meters**

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