

Name _____

Circle all answers

1. How many steps of 30" must a person take in walking 20 miles?

Linear Measure	
1 foot =	12 inches
1 yard =	3 feet
1 rod =	5 1/2 yards
1 mile =	320 rods

2. Add and subtract using Troy weights.

a)

$$\begin{array}{r}
 5 \text{ oz} \quad 3 \text{ dwt} \quad 3 \text{ ct} \quad 1 \text{ gr} \\
 + \quad 2 \text{ oz} \quad \quad \quad 2 \text{ ct} \quad 2 \text{ gr} \\
 \hline
 7 \text{ oz} \quad 2 \text{ dwt} \quad 3 \text{ ct} \quad 2 \text{ gr}
 \end{array}$$

b)

$$\begin{array}{r}
 13 \text{ lb} \quad 2 \text{ oz} \\
 - \quad 10 \text{ lb} \quad 2 \text{ oz} \quad 1 \text{ ct} \\
 \hline
 \end{array}$$

Troy Weight	
4 grains (gr) =	1 carat (ct)
6 carats =	1 pennyweight (dwts)
20 dwts =	1 ounce (oz)
12 ounces =	1 pound (lb)

3. I Samuel, Chapter 17, verse 9 states that Goliath "had a helmet of brass upon his head, and he was armed with a coat of mail; and the weight was five thousand shekels of brass". If a shekel of brass is equivalent to 0.4 ounces, and there are 16 ounces in a pound, how much weight did Goliath carry (in pounds)?
4. English measures of length were standardized under the reign of Henry I (1100-1135). In measuring land, the rod proved inadequate for large magnitude lengths. A new measure, the *chain*, was set to equal 4 rods. How many chains would be required to measure 1 mile?
5. If one *acre* is 160 square rods, then how many square yards make up 1 acre?

6. How many mouthfuls would there be in a 12 oz can of soda?

Liquid Measure	
1 jigger (ounce) =	2 mouthfuls
1 jack =	2 jiggers
1 gill =	2 jacks
1 cup =	2 gills
1 pint =	2 cups
1 quart =	2 pints
1 gallon =	4 quarts

7. *20,000 Leagues Under the Sea* is the title of a novel written by Jules Verne.
Re-title this novel as _____ *Miles Under the Sea*.

Mariner's Measure	
1 fathom =	6 feet
1 league =	3043 fathoms

8. Fourteen equal lengths must be cut from a piece of ribbon 5 yd. 2 ft. 10 in. long. How long should each piece be and how much ribbon would remain?
9. Insert the appropriate relational symbol ("<", ">", "=") to make each of the following true.
- | | | | | | |
|------------|----------------|------------|--------------|--------------------|-------------|
| a) 1 meter | 1 yard | c) 1 liter | 1 quart | e) 1 pound | 1 kilogram |
| b) 1 gram | 100 centigrams | d) 1 inch. | 1 centimeter | f) 105 milliliters | 1.05 liters |
10. 15.135 centimeters is equivalent to how many dekameters?
11. Why is a meter 39.37 inches?
12. Compare and contrast the origin of the Avoirdupois pound with the metric kilogram.