i-Pathways

To convert units of measure (length, weight, volume, time), you must pay attention to the words of the measures. Using proportions to solve word problems is an effective way to solve the conversion questions.

U.S. or English System

Length	Weight
1 foot (ft) = 12 inches (in) 1 yard (yd) = 3 feet 1 mile (mi) = 5280 feet	1 pound (lb) = 16 ounces (oz) 1 ton (t) = 2000 pounds
Volume	**Time**
1 cup (c) = 8 fluid ounces (fl oz) 1 pint (pt) = 2 cups 1 quart (qt) = 2 pints 1 gallon (gal) = 4 quarts	1 minute (min) = 60 seconds (sec) 1 hour (hr) = 60 minutes 1 day = 24 hours 1 week = 7 days 1 year = 12 months = 265 days

Select the best answer for the following questions and type it on the line provided.

1. How many inches are in $3\frac{1}{2}$ yards? _____

   a. 10.5
   b. 42
   c. 126
   d. 136.5

2. How many feet are in 4 miles? _____

   a. 15,840
   b. 440
   c. 63,360
   d. 21,120

3. You have two pieces of scrap wood that you found in the garage. One is 11 inches in length and the other is 4 feet and 5 inches. What is the total length of the two pieces of scrap wood? _____

   a. 5 feet 5 inches
   b. 5 feet 4 inches
   c. 4 feet 6 inches
   d. 5 feet 9 inches

4. Multiply 5 pounds 4 ounces by 3. _____

   a. 16 pounds 2 ounces
   b. 16 pounds 12 ounces
   c. 15 pounds 2 ounces
   d. 15 pounds 12 ounces

5. William has a part-time job at the local drug store. He earns $8.00 an hour, and is paid weekly. William worked the following hours this week: Monday, 3 hours and 40 minutes; Tuesday, 2.5 hours; Thursday, 4 hours and 20 minutes; and Saturday, 8 hours. How much should he expect his paycheck to be for this week? _____

   a. $143.20
   b. $144.00
   c. $148.00
   d. $150.00

6. Subtract 4 cups 4 ounces from 3 pints 4 ounces. _____

   a. 1 pint
   b. 2 cups 4 ounces
   c. 1 cup
   d. 2 pints 4 ounces