

Math Practice Sheets

Measurement

Student Name

Examples

Practice Questions

Extra Challenge Unit



**Unit
22.1****Converting Customary Measures****Example**Customary units of length

Foot (ft): 1 ft = 12 in
Yard (yd): 1 yd = 3 ft
 = 36 in
1 mile = 5,280 ft
 = 1,760 yd

Customary units of capacity

1 cup (c) = 8 fluid ounce (fl oz)
1 pint (pt) = 2 cups
1 quart (qt) = 2 pints = 4 cups
1 gal = 4 qt = 16 c = 128 fl oz

Customary units
of weight

1 pound (lb)
= 16 ounce (oz)
1 ton = 2,000 lb

Convert the following scales.

a) 78 inch into feet

Solution:

$$\begin{array}{r} 6.5 \\ 12 \overline{)78} \\ \underline{- 72} \\ 60 \\ \underline{- 60} \\ 0 \end{array}$$

$\therefore 78 \text{ in} = 6.5 \text{ ft}$

b) 2 lb into oz

$$2 \text{ lb} = 2 \text{ lb} \times \frac{16 \text{ oz}}{1 \text{ lb}} \\ = 32 \text{ oz}$$

$\therefore 2 \text{ lb} = 32 \text{ oz}$

c) 48 qt into gal

$$48 \text{ qt} = x \text{ gal}$$

$$4 \text{ qt} = 1 \text{ gal}$$

$$48 \text{ qt} = x \text{ gal}$$

$$\frac{4 \text{ qt}}{48 \text{ qt}} = \frac{1 \text{ gal}}{x \text{ gal}}$$

$$4x = 48 \rightarrow x = 12$$

$\therefore 48 \text{ qt} = 12 \text{ gal}$

Exercise

1. Convert the following.

a) 10 ft

= _____ in

b) 15,000 lb

= _____ T

c) 5 yd

= _____ ft

d) 96 oz

= _____ lb

e) 6 c

= _____ qt

f) 3,520 yd

= _____ mi