

Customary Weight

The customary units that are used to measure weight are ounce, pound, and ton. The chart shows a list of common measures.

$$1 \text{ pound (lb)} = 16 \text{ ounces (oz)}$$

$$1 \text{ ton (T)} = 2,000 \text{ pounds}$$

Find: $5\frac{1}{2} \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$

To change pounds to a smaller unit, multiply.
Use fractions.

$$1 \text{ lb} = 16 \text{ oz}$$

$$5\frac{1}{2} \times 16 = \frac{11}{2} \times \frac{16}{1} = \frac{88}{1} = 88$$

$$5\frac{1}{2} \text{ lb} = 88 \text{ oz}$$

Find: $6,500 \text{ lb} = \underline{\hspace{2cm}} \text{ T}$

To change pounds to a larger unit, divide.

$$2,000 \text{ lb} = 1 \text{ T}$$

$$\frac{6,500}{2,000} = \frac{65}{20} = 3\frac{5}{20} = 3\frac{1}{4}$$

$$6,500 \text{ lb} = 3\frac{1}{4} \text{ T}$$

Change each measurement to the smaller unit. For some problems, you may need to change units twice.

1. $3\frac{1}{4} \text{ lb} = \underline{52} \text{ oz}$ $2\frac{1}{2} \text{ T} = \underline{\hspace{2cm}} \text{ lb}$ $6 \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$ $1 \text{ T} = \underline{\hspace{2cm}} \text{ oz}$

2. $4 \text{ T} = \underline{\hspace{2cm}} \text{ lb}$ $1\frac{3}{8} \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$ $4\frac{3}{16} \text{ lb} = \underline{\hspace{2cm}} \text{ oz}$ $\frac{1}{2} \text{ T} = \underline{\hspace{2cm}} \text{ lb}$

Change each measurement to the larger unit. For some problems, you may need to change units twice.

3. $53 \text{ oz} = \underline{3\frac{5}{16}} \text{ lb}$ $7,000 \text{ lb} = \underline{\hspace{2cm}} \text{ T}$ $80 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$ $800 \text{ lb} = \underline{\hspace{2cm}} \text{ T}$

4. $72 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$ $36 \text{ oz} = \underline{\hspace{2cm}} \text{ lb}$ $2,400 \text{ lb} = \underline{\hspace{2cm}} \text{ T}$ $32,000 \text{ oz} = \underline{\hspace{2cm}} \text{ T}$

Solve.

5. Andrea bought a beef roast which weighed $14\frac{1}{4}$ pounds. How many ounces is this?

Answer

6. Conrad bought $5\frac{1}{2}$ tons of coal. How many pounds is this?

Answer

Customary Capacity

The customary units that are used to measure capacity are fluid ounce, cup, pint, quart, and gallon. The charts show a list of common measures.

LIQUID

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

DRY

2 pints = 1 quart
8 quarts = 1 peck (pk)
4 pecks = 1 bushel (bu)

Find: $3\frac{3}{4}$ qt = _____ c

To change quarts to a smaller unit, multiply.
Use fractions.

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

$$3\frac{3}{4} \times 4 = \frac{15}{\cancel{4}} \times \frac{\cancel{4}}{1} = \frac{15}{1} = 15$$

$$3\frac{3}{4} \text{ qt} = 15 \text{ c}$$

Find: 21 qt = _____ gal

To change quarts to a larger unit, divide.

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

$$\frac{21}{4} = 5 \frac{1}{4}$$

$$21 \text{ qt} = 5 \frac{1}{4} \text{ gal}$$

Change each measurement to the smaller unit. For some problems, you may need to change units twice.

1. $8 \frac{1}{2}$ pt = 17 c

$$2\frac{1}{4} \text{ gal} = \underline{\hspace{2cm}} \text{ qt}$$

13 qt = _____ pt

$$2 \text{ bu} = \underline{\hspace{2cm}} \text{ qt}$$

2. $4\frac{1}{8}$ gal = _____ pt

9 qt = _____ c

$$1 \frac{1}{2} \text{ gal} = \underline{\hspace{2cm}} \text{ c}$$

30 pk = _____ qt

Change each measurement to the larger unit. For some problems, you may need to change units twice.

3. 7 c = $1\frac{3}{4}$ qt

21 pt = _____ gal

11 c = _____ pt

16 pk = _____ bu

4. 24 qt = _____ gal

14 pt = _____ qt

54 c = _____ gal

20 qt = _____ pk

Solve.

5. Antonio made 8 gallons of spaghetti sauce. How many pint jars can he fill?

Answer _____

6. The juice from six large oranges measures about three cups. How many pints is this?

Answer _____