

Name: Class:

Add and subtract mixed customary units

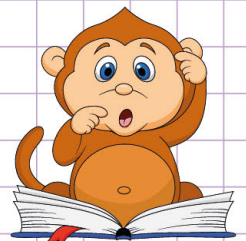


Add and subtract the following customary units and convert where necessary.

a. 3,000 pounds 2 tons - 2,000 pounds 2 tons =

b. 10 feet 17 inches - 5 feet 8 inches =

c. 2 gallons 112 cups + 60 gallons 15 cups =



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Add and subtract the following customary units and convert where necessary.

a. $3,000 \text{ pounds } 2 \text{ tons} - 2,000 \text{ pounds } 2 \text{ tons} =$

Let's subtract pounds from pounds and tons from tons.

$$\begin{array}{r} 3000 \text{ pounds} \quad 2 \text{ tons} \\ - 2000 \text{ pounds} \quad 2 \text{ tons} \\ \hline 1,000 \text{ pounds} \quad 0 \text{ tons} \end{array}$$

So, $3,000 \text{ pounds } 2 \text{ tons} - 2,000 \text{ pounds } 2 \text{ tons} = 1,000 \text{ pounds } 0 \text{ tons}.$

b. $10 \text{ feet } 17 \text{ inches} - 5 \text{ feet } 8 \text{ inches} =$

Let's subtract feet from feet and inches from inches.

$$\begin{array}{r} 10 \text{ feet} \quad 17 \text{ inches} \\ - 5 \text{ feet} \quad 8 \text{ inches} \\ \hline 5 \text{ feet} \quad 9 \text{ inches} \end{array}$$

So, $10 \text{ feet } 17 \text{ inches} - 5 \text{ feet } 8 \text{ inches} = 5 \text{ feet } 9 \text{ inches}.$

c. $2 \text{ gallons } 112 \text{ cups} + 60 \text{ gallons } 15 \text{ cups} =$

Let's add gallons to gallons and cups to cups.

$$\begin{array}{r} 02 \text{ gallons} \quad 112 \text{ cups} \\ + 60 \text{ gallons} \quad + 15 \text{ cups} \\ \hline 62 \text{ gallons} \quad 127 \text{ cups} \end{array}$$

Since 16 cups is equal to 1 gallon,

then $127 \text{ cups} = (127/16) \text{ gallons}.$

$$= 7 \text{ R } 15 \text{ OR } 7 \text{ gallons } 15 \text{ cups}.$$

Now, let's add 7 gallons to 62 gallons = $(7 + 62) \text{ gallons} = 69 \text{ gallons}.$ So, $2 \text{ gallons } 112 \text{ cups} + 60 \text{ gallons } 15 \text{ cups} = 69 \text{ gallons } 15 \text{ cups}.$ 