Name: ..... Class: .....

Multi - step problems with customary or metric unit conversions

1. Dan had 625 cups of soda. He gave $\frac{4}{5}$ of soda to his sister. How many pints of soda does Dan have left?

2. Jane is 3 kilometers away from Paddy. If Paddy had travelled 800 meters, how many meters does Jane need to travel to get to Paddy?

3. Mr. Carl is a Jewelry designer. He has ordered 600 grams of brass, 15 grams of gold, 800 grams of copper and 900 grams of silver. How many kilograms of material did he order in all?

Solution

mathskills4kids

Name: ..... Class: .....

Multi - step problems with customary or metric unit conversions

1. Dan had 625 cups of soda. He gave $\frac{4}{5}$ of soda to his sister. How many pints of soda does Dan have left?

Let's first of all find the amount of soda given to his sister

Multiply $\frac{4}{5}$ by 625 cups to find the amount given to his sister

$\frac{4}{5} \times \frac{625}{1} = \frac{2500}{5} = \frac{5 \times 500}{5} = 500$ cups

Number of cups of soda that Dan has left

(625 - 500) cups = 125 cups

Now, find how many pints are in 125 cups

If 2 cups = 1 pint

then, 125 cups = ($\frac{125}{2}$)pints = 62.5 pints

So, Dan have 62.5 pints of soda left

2. Jane is 3 kilometers away from Paddy. If Paddy had travelled 800 meters, how many meters does Jane need to travel to get to Paddy?

Let's find out how many meters are in 3 kilometers

if 1 kilometer = 100 meters

therefore, 3 kilometers = (3 x 1,000) meters = 3,000 meters

To find how many meters Jane need to get to Paddy, subtract 800 from 3,000

(3,000 - 800)meters = 2,200 meters

So, Jane need to travel 2,200 meters to get to paddy.

3. Mr. Carl is a Jewelry designer. He has ordered 600 grams of brass, 15 grams of gold, 800 grams of copper and 900 grams of silver. How many kilograms of material did he order in all?

Let's first all find out how many grams of material he ordered in all.

So let's add, (600 + 15 + 800 + 900) grams = 2,315 grams

Now, lets find out how many kilograms are in 2,315 grams.

If 1,000 grams = 1 kilogram

then, 2.315 grams = (2.315/1000) kilograms = 2.315 kilograms

So, Mr Carl ordered 2.315 kilograms of material in all