









American Metric

1 ounce (oz) = 28.35 grams (g) 1 pound (lb) = .45 kilograms (kg) Metric American

1 gram (g) = .035 ounces (oz) 1 kilogram (kg) = 2.21 pounds (lb)

A witch is creating potions. She makes one 4 ounce potion. How many grams is the potion?

Since 1oz = 28.35g, multiply by 4:  $4 \times 1$ oz =  $4 \times 28.35$ g 4 oz = 113.4g 20.35  $\frac{x}{4}$  113.40

2. She makes another potion that is .225 kilograms. How many pounds is the potion?

Since 1kg = 2.21lb, multiply by .225: 225 x 1kg = .225 x 2.21lb 450 .225kg = .497lb 450 .49725

3. The witch then makes a potion that weighs 85 grams. How many ounces is the potion? .035

Since 1g = .035oz, multiply by 85:  $85 \times 1g = 85 \times .035oz$ 85g = 2.975oz  $\frac{x \cdot 85}{175}$   $\frac{280}{2.975}$ 

4. She makes a large batch of witch's brew equal to 16 ounces. How many grams of brew are there? How many kilograms of brew are there? (hint: there are 1,000 grams in 1 kilogram) 28.35

Since 1oz = 28.35g, multiply by 16:

 $16 \times 10z = 16 \times 28.35g$ 

16oz = 453.6g

Since 1,000g = 1kg, divide

453.6 by 1,000:

453.6/1,000 = .4536kg

x 16

17010

<u> 2835</u>

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