Werm Up Questions

- #1 a) A weed whacker with a 2-stroke engine requires 7L of gas to be mixed with 0.8 L of oil. How much oil will you need to mix with 5L of gas to fill up your weed whacker? Round to 1 decimal place.
 - b) If the weed whacker's gas tank holds 3 L. How much gas and oil will be needed to fill the tank?
- #2 If 7 cans of paint cover 210 m² of wall space, how many cans of paint will you need to cover 440 m²?

#1 a) A weed whacker with a 2-stroke engine requires
 7L of gas to be mixed with 0.8 L of oil. How
 much oil will you need to mix with 5L of gas to
 fill up your weed whacker ? Round to 1 decimal
 place.
 Let oil = x

$$\frac{gas}{oil} = \frac{5}{x}$$

$$7x = 4$$

$$x = 0.6L$$
 of oil

#1

b) If the weed whacker's gas tank holds 3 L. How much gas and oil will be needed to fill the tank?

Batch Total	<u>Total Ratio</u>	<u>Oil Total</u>
Liters of gas = 7 Liters of oil = 0.8	Let x = gas <u>liters of gas</u> Total	Oil = 3 - 2.7 = 0.3
Total # = 7.8	$\frac{7}{7.8} = \frac{x}{3}$	0.3 Litres of oil
	7.8x = 21	
	x = 2.7 2.7 Liters of gas	

#2 If 7 cans of paint cover 210 m² of wall space, how many cans of paint will you need to cover 440 m²?

Let # of cans = x

$$\frac{\text{# of cans}}{\text{area}}$$

$$\frac{7}{210} = \frac{x}{440}$$

$$210x = 3080$$

 $x = 14.6$
15 cans of paint



Fruit Juice Recipe
7 cups pineapple juice
3 cups cranberry juice
8 cups apple juice



You need to make only 30 cups of juice for a taste test. How much of each ingredient will you need?



Fruit Juice Recipe
7 cups pineapple juice
3 cups cranberry juice
8 cups apple juice

You need to make 30 cups of juice for a taste test. How much of each ingredient will you need?



Batch Total

of pineapple = 7 # of cranberry = 3 # of apple = 8

Total # = 18



Fruit Juice Recipe

- 7 cups pineapple juice
- 3 cups cranberry juice
- 8 cups apple juice

You need to make 30 cups of juice for a taste test. How much of each ingredient will you need?

Batch Total

of pineapple = 7 # of cranberry = 3 # of apple = 8

Total # = 18

Total Ratio



Let x = pineapple

of pineapple Total

$$\frac{7}{18} = \frac{x}{30}$$

$$\longrightarrow 18x = 210$$

$$\rightarrow$$
 $x = 11.7$



Fruit Juice Recipe
7 cups pineapple juice
3 cups cranberry juice
8 cups apple juice

You need to make 30 cups of juice for a taste test. How much of each ingredient will you need?

Batch Total

of pineapple = 7 # of cranberry = 3 # of apple = 8

Total # = 18

Total Ratio

Let x = pineapple

of pineapple Total

$$\frac{7}{18} = \underline{x}$$

$$18x = 210$$

$$x = 11.7$$

11.7 cups of pineapple

Total Ratio

Let y = cranberry

of cranberry Total

$$\frac{3}{18} = \frac{y}{30}$$

$$\longrightarrow 18y = 90$$

$$y = 5$$

5 cups of cranberry



Fruit Juice Recipe
2 cups pineapple juice
3 cups cranberry juice
5 cups apple juice

You need to make 30 cups of juice for a taste test. How much of each ingredient will you need?



Batch Total

of pineapple = 7 # of cranberry = 3 # of apple = 8

Total # = 18

Total Ratio

Let x = pineapple

of pineapple Total

$$\frac{7}{18} = \underline{x}$$

$$18x = 210$$

$$x = 11.7$$

11.7 cups of pineapple Edend Page

Total Ratio

Let y = cranberry

of cranberry Total

$$\frac{3}{18} = \underline{y}$$

$$y = 5$$

5 cups of cranberry

Apple = 30 - 11.7 - 5

= 13.3 cups

13.3 cups of apple

