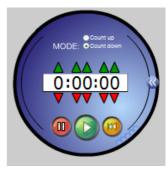
Warm Up Questions



- #1 a) A dirt bike with a 2-stroke engine requires 15 L of gas to be mixed with 1.5 L of oil. How much oil will you need to mix with 25 L of gas to fill up your dirt bike? Round to 1 decimal place.
 - b) If the dirt bike's gas tank holds 20 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 dirt bike with a 2-stroke engine requires 15 L of gas to be mixed with 1.5 L of oil. How much oil will you need to mix with 25 L of gas to fill up your dirt bike? Round to 1 decimal place.

Let oil
$$= x$$

$$\begin{array}{rcl}
 & \underline{gas} \\
 & \underline{oil} \\
 & \underline{15} & = & \underline{25} \\
 & \underline{1.5} & & \underline{x}
\end{array}$$

$$15x = 37.5$$

$$x = 2.5L$$
 of oil

#1 b) If the dirt bike's gas tank holds 20 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 = 15 Liters of oil = 1.5	Let x = gas <u>liters of gas</u> Total	Oil = 20 - 18.2 = 1.8
Total # = 16.5	$\frac{15}{16.5} = \frac{x}{20}$	1.8 Litres of oil
	16.5x = 300	
	x = 18.2 18.2 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