

How are you doing?

# Warm Up Questions



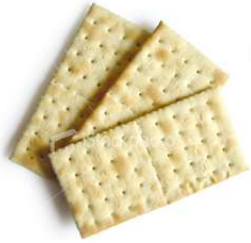
1. In a bag of red and green candies, the ratio of red candies to green candies is 3:4. If the bag contains 126 candies, how many red and green candies are there?
2. A supermarket is selling crackers for \$2.50 for an 8 oz box and \$3.00 for a 12 oz box. What is the unit price for each box and which is the better buy?
3. A dirt bike with a 2-stroke engine requires 18 L of gas to be mixed with 2.5 L of oil. How much oil will you need to mix with 30 L of gas to fill up your dirt bike? Round to 1 decimal place.

1. In a bag of red and green candies, the ratio of red candies to green candies is 3:4. If the bag contains 126 candies, how many red candies are there?

<p>Red = 3 Green = 4 Total = 7</p>	<p style="text-align: center;"><b><u>Total Ratio</u></b></p> <p>Let x = Red Candies</p> <p style="text-align: center;"><b><u>Red Candies</u></b></p> <p style="text-align: center;"><b>Total</b></p> $\frac{3}{7} = \frac{x}{126}$ <p>→ 7x = 378</p> <p>→ x = 54 Red Candies</p>	<p>126 - 54 = 72 Green Candies</p>
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3. A supermarket is selling crackers for \$2.50 for an 8 oz box and \$3.00 for a 12 oz box. What is the unit price for each box and which is the better buy?



$$\frac{\$2.50}{8\text{oz}} = \$0.31/\text{oz}$$

Price  
Unit

$$\frac{\$3.00}{12\text{oz}} = \$0.25/\text{oz}$$



➔ **The 12 oz box is the better buy!**

A dirt bike with a 2-stroke engine requires 18 L of gas to be mixed with 2.5 L of oil. How much oil will you need to mix with 30 L of gas to fill up your dirt bike? Round to 1 decimal place.

Let oil = x

$$\frac{\text{gas}}{\text{oil}} = \frac{\text{gas}}{\text{oil}}$$
$$\frac{18}{2.5} = \frac{30}{x}$$

$$18x = 75$$

$$x = 4.17 \text{ L of oil}$$