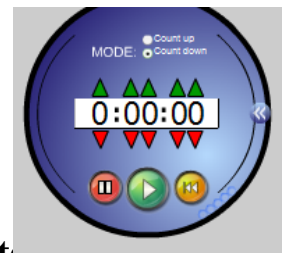


How are you doing?

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 candies are there?
2. Clothing store A sells T-shirts in only three colors: red, blue and green. The colors are in the ratio of 3 to 4 to 5. If the store has 20 blue T-shirts, how many T-shirts does it have altogether?
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?
4. A furniture store in Halifax NS (15%), is selling a bedroom suite. The furniture store paid \$800.00 for the suite, but intends to add a markup of 75%.
 - a) What will the furniture store charge for the suite?
 - b) How much will the customer have to pay with tax?
 - c) What would be the difference in price if the same set was sold in PEI for the same price?

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?

Red = 3
Green = 4
Total = 7

Total Ratio

Let x = Red Candies

Red Candies
Total

$$\frac{3}{7} = \frac{x}{126}$$

→ $7x = 378$

→ $x = 54$ Red Candies



2. Clothing store A sells T-shirts in only three colors: red, blue and green. The colors are in the ratio of 3 to 4 to 5. If the store has 20 blue T-shirts, how many T-shirts does it have altogether?

Red = 3
Blue = 4
Green = 5
Total = 12

Total Ratio

Let x = # of Shirts

Blue Shirts
Total

$$\frac{4}{12} = \frac{20}{x}$$

→ $4x = 240$

→ $x = 60$ Shirts in all




x 20

2. Clothing store A sells T-shirts in only three colors: red, blue and green. The colors are in the ratio of 3 to 4 to 5. If the store has 20 blue T-shirts, how many T-shirts does it have altogether?




Red : Blue : Green
3 : 4 : 5

$$\frac{\text{Blue Shirts}}{\text{Red Shirts}} = \frac{4}{3}$$


Let $x = \#$ of  Shirts

$$\frac{4}{3} = \frac{20}{x}$$

$$4x = 60$$

$$\text{👕 } x = 15$$

$$\frac{\text{Blue Shirts}}{\text{Green Shirts}}$$

Let $x = \#$ of  Shirts

$$\frac{4}{5} = \frac{20}{x}$$

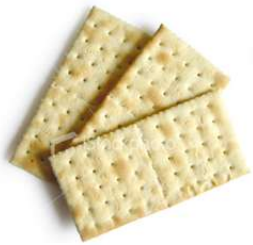
$$4x = 100$$

$$\text{👕 } x = 25$$

There are 20 blue, 15 red and 25 green T-shirts for a total of 60 shirts. :)



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!**

4. A furniture store in Halifax NS (15% tax), is selling a bedroom suite. The furniture store paid \$800.00 for the suite, but intends to add a markup of 75%.
- a) What will the furniture store charge for the suite?
 - b) How much will the customer have to pay with tax?
 - c) What would be the difference in price if the same set was sold in PEI for the same price?

a) $\$800.00 \times 1.75 = \1400.00

b) $\$1400.00 \times 1.15 = \1610.00

c) $\$1400.00 \times 1.05 = \1470.00
 $\$1470.00 \times 1.10 = \1617.00



➔ Difference in price: $1610 - 1617 = \$7.00$

