066 Math Practice

Practice with Proportion

Sometimes the cost of a certain quantity of items at a supermarket is given. You may want to buy a different number of items. You can use proportions to find the price of the number of items that you need.

Examples: You can buy three grapefruit for $1.00.

How much will one grapefruit cost?

$$\frac{1 \text{ grapefruit}}{N} = \frac{3 \text{ grapefruit}}{\$1.00}$$

$\$1.00 \times 1 = 3 \times N$

$\frac{1.00}{3} = N$

$.33333333 = N$

One grapefruit costs 34 cents.

How much will five grapefruit cost?

$$\frac{3 \text{ grapefruit}}{\$1.00} = \frac{5 \text{ grapefruit}}{N}$$

$3 \times N = \$1.00 \times 5$

$\frac{5.00}{3} = N$

$1.6666666 = N$

Five grapefruit cost $1.67.

When you work with money, remember to round your answers to the next highest cent, as grocery stores do.

Use a proportion to find the cost of the items described.

1. soup
   3 cans for $1.89

   2 cans for _____

   Hint: $\frac{3 \text{ cans}}{1.89} = \frac{2 \text{ cans}}{N}$

2. frozen pizza
   2 pizzas for $6.75

   1 pizza for _____

   Hint: $\frac{2 \text{ pizzas}}{6.75} = \frac{1 \text{ pizza}}{N}$

3. sandwich rolls
   6 rolls for $1.49

   18 rolls cost _____

4. potatoes
   5 pounds for $3.45

   3 pounds cost _____

5. paper towels
   3 rolls for $3.59

   4 rolls cost _____

6. oranges
   10 for $2.99

   5 cost _____

ADAPTED FROM SHARED, UNKNOWN SOURCE.
DO NOT USE THIS SHEET COMMERCIALLY.

HoneycuttScience.com

Copyright John A. Honeycutt 2018. ©

067 Math Practice

Solving Proportions

Write a proportion to find the cost of the items.

1. fruit cocktail
   4 cans for $4.96

   6 cans cost _____

2. broccoli
   2 packages for $2.56

   3 packages cost _____

3. soap
   4 bars for $3.56

   7 bars cost _____

4. peppers
   4 for $2.00

   7 peppers cost _____

5. crackers
   2 boxes for $4.48

   1 box costs _____

6. sodas
   6 bottles for $2.99

   4 bottles cost _____

7. shortening
   2 cans for $5.39

   3 cans cost _____

8. sour cream
   2 cartons for $2.38

   1 carton costs _____

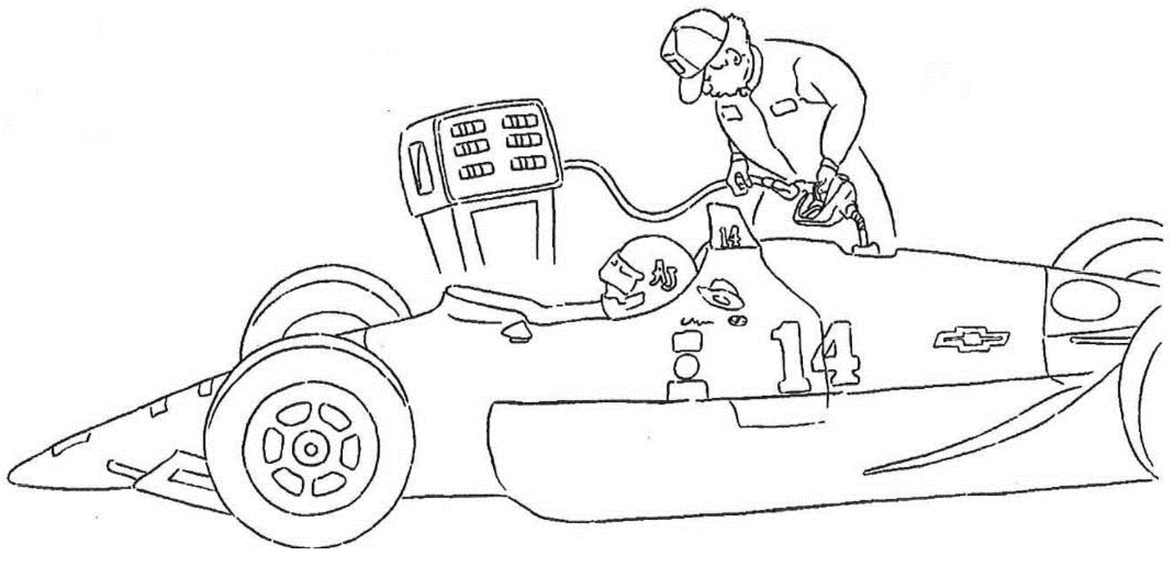
Proportions can be used to solve a variety of other word problems. Be careful to write both ratios in the same order.

9. Three pounds of hamburger will feed twelve persons. How much hamburger will be needed to feed eight persons?

$$\frac{3 \text{ pounds}}{12 \text{ persons}} =$$

10. A car can travel 320 miles on eight gallons of gas. How far can it travel on one gallon of gas?

$$\frac{320 \text{ miles}}{8 \text{ gallons}} =$$



ADAPTED FROM SHARED, UNKNOWN SOURCE.
DO NOT USE THIS SHEET COMMERCIALLY.

HoneycuttScience.com

Copyright John A. Honeycutt 2018. ©