

Proportion Word Problems

Answer each question and round your answer to the nearest whole number.

- 1) If you can buy one can of pineapple chunks for \$2 then how many can you buy with \$10?

5

$$\frac{1 \text{ can}}{\$2} = \frac{x}{\$10}$$

$$10 = \frac{2x}{2}$$

**X = 5 cans**

- 2) One jar of crushed ginger costs \$2. How many jars can you buy for \$4?

2

$$\frac{1 \text{ jar}}{\$2} = \frac{x}{\$4}$$

$$2x = \frac{\$4}{2}$$

**X = 2 jars**

- 3) One cantaloupe costs \$2. How many cantaloupes can you buy for \$6?

3

$$\frac{1 \text{ cant.}}{\$2} = \frac{x}{\$6}$$

$$\frac{6}{x} = \frac{2x}{x}$$

**X = 3 cantaloupes**

- 4) One package of blueberries costs \$3. How many packages of blueberries can you buy for \$9?

3

$$\frac{1 \text{ pack}}{\$3} = \frac{x}{\$9}$$

$$\frac{9}{3} = \frac{3x}{3}$$

**X = 3 packs**

- 5) Shawna reduced the size of a rectangle to a height of 2 in. What is the new width if it was originally 24 in wide and 12 in tall?

4 in

~~12~~ ~~24~~ ~~12~~ ~~10~~

$$\frac{24}{12} = \frac{x}{2}$$

$$12x = 240$$

**X = 4**

- 6) Ming was planning a trip to Western Samoa. Before going, she did some research and learned that the exchange rate is 6 Tala for \$2. How many Tala would she get if she exchanged \$6?

18 Tala

$$\frac{6 \text{ Tala}}{\$2} = \frac{x}{\$6}$$

$$\frac{36}{2} = \frac{2x}{2}$$

**X = 18 Tala**

- 7) Jasmine bought 32 kiwi fruit for \$16. How many kiwi can Lisa buy if she has \$4?

8

$$\frac{32 \text{ kiwi}}{\$16} = \frac{x}{\$4}$$

$$\frac{128}{16} = \frac{16x}{16}$$

**X = 8 kiwi**

- 8) If you can buy four bulbs of elephant garlic for \$8 then how many can you buy with \$32?

16

$$\frac{4 \text{ bulbs}}{\$8} = \frac{x}{\$32}$$

$$\frac{128}{8} = \frac{8x}{8}$$

**X = 16**

- 9) One bunch of seedless black grapes costs \$2. How many bunches can you buy for \$20?

10

$$\frac{1 \text{ bunch}}{\$2} = \frac{x}{\$20}$$

$$20 = \frac{2x}{2}$$

**X = 10 bunches**

- 10) The money used in Jordan is called the Dinar. The exchange rate is \$3 to 2 Dinars. Find how many dollars you would receive if you exchanged 22 Dinars.

\$33

$$\frac{\$3}{2 \text{ dinar}} = \frac{x}{22 \text{ dinar}}$$

$$\frac{66}{2} = \frac{22x}{2}$$

**X = 33**

- 11) Gabriella bought three cantaloupes for \$7. How many cantaloupes can Shayna buy if she has \$21?

9

$$\begin{array}{r} 3 \\ \$7 \end{array} \times \frac{x}{\$21}$$

$$63 = 7x$$

$$\frac{63}{7} = \frac{7x}{7}$$

$$x = 9$$

- 12) Jenny was planning a trip to the United Arab Emirates. Before going, she did some research and learned that the exchange rate is 4 Dirhams for every \$1. How many Dirhams would she get if she exchanged \$5?

20 Dirhams

$$\begin{array}{r} 4D \\ \$1 \end{array} \times \frac{x}{\$5}$$

$$20 = x$$

- 13) Castel bought four bunches of fennel for \$9. How many bunches of fennel can Mofor buy if he has \$18?

8

$$\begin{array}{r} 4 \text{ bunch} \\ \$9 \end{array} \times \frac{x}{\$18}$$

$$72 = 9x$$

$$\frac{72}{9} = \frac{9x}{9}$$

$$x = 8 \text{ bunches}$$

- 14) If you can buy one fruit basket for \$30 then how many can you buy with \$60?

2

$$\begin{array}{r} 1 \text{ basket} \\ \$30 \end{array} \times \frac{x}{\$60}$$

$$60 = 30x$$

$$\frac{60}{30} = \frac{30x}{30}$$

$$x = 2 \text{ baskets}$$

Answer each question. Round your answer to the nearest tenth. Round dollar amounts to the nearest cent.

- 15) Asanji took a trip to Mexico. Upon leaving he decided to convert all of his Pesos back into dollars. How many dollars did he receive if he exchanged 42.7 Pesos at a rate of \$5.30 = 11.1 Pesos?

\$20.39

$$\begin{array}{r} \$5.30 \\ 11.1 \text{ peso} \end{array} \times \frac{x}{42.7 \text{ peso}}$$

$$226.31 = 11.1x$$

$$\frac{226.31}{11.1} = \frac{11.1x}{11.1}$$

$$x = \$20.39$$

- 16) The currency in Argentina is the Peso. The exchange rate is approximately \$3 = 1 Peso. At this rate, how many Pesos would you get if you exchanged \$121.10?

40.4 Pesos

$$\begin{array}{r} \$3 \\ 1 \text{ peso} \end{array} \times \frac{x}{\$121.10}$$

$$3x = 121.10$$

$$\frac{3x}{3} = \frac{121.10}{3}$$

$$x = 40.4 \text{ pesos}$$

- 17) Mary reduced the size of a painting to a width of 3.3 in. What is the new height if it was originally 32.5 in tall and 42.9 in wide?

2.5 in

$$\begin{array}{r} 32.5 \text{ in tall} \\ 42.9 \text{ in wide} \end{array} \times \frac{x}{3.3}$$

$$107.25 = 42.9x$$

$$\frac{107.25}{42.9} = \frac{42.9x}{42.9}$$

$$x = 2.5 \text{ in. in height}$$

- 18) Molly bought two heads of cabbage for \$1.80. How many heads of cabbage can Willie buy if he has \$28.80?

32

$$\begin{array}{r} 2 \text{ heads} \\ \$1.80 \end{array} \times \frac{x}{\$28.80}$$

$$57.8 = 1.80x$$

$$\frac{57.8}{1.80} = \frac{1.80x}{1.80}$$

$$x = 32 \text{ heads}$$