

1. 18 pounds of potatoes cost \$216. How many pounds of potatoes can you get with \$120?

Proportion	Unit Rate
 $\frac{18 \text{ lbs.}}{\\$216} = \frac{X}{\\$120}$ 	Cost per pound $216 \div 18 = \$12 \text{ per pound}$
$\frac{2160}{216} = \frac{216x}{216}$	$120 \div 12 = 10 \text{ lbs}$
$X = 10 \text{ lbs}$	

Sep 25-10:29 AM

1. A boat travels 156 miles in 3 hours. How much time will it take traveling 492 miles?

Miles per hour

$$156 \div 3 = 52 \text{ mph}$$

$$492 \div 52 \approx 9.5 \text{ hours}$$

Sep 25-10:34 AM

40 kg of tomatoes cost \$480. How much would 8 kg cost?

Cost per Kg

$$480 \div 40 = \$12 \text{ per Kg.}$$

$$12 \times 8 = \$96$$

$$\frac{40 \text{ kg}}{\$480} = \frac{8 \text{ kg}}{X}$$

If 18 plums weigh 54 ounces, then 27 plums weigh how many ounces?

Ounces per Plum

$$54 \div 18 = 3$$

$$27 \times 3 = 81 \text{ ounces}$$

$$\frac{18 \text{ plums}}{54 \text{ oz}} = \frac{27 \text{ pl.}}{X \text{ oz}}$$

Gary can type three pages in 18 minutes. How many pages can he type in 33 minutes?

Sep 25-11:54 AM

More practice with Proportion Word Problems

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

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$$\frac{3}{7} = \frac{X}{21}$$

(Handwritten notes: x3, x3 with arrows indicating cross-multiplication)

9 cantaloupes

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?

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~~$$\frac{4}{1} = \frac{X}{5}$$~~

$$X = 20$$

Sep 26-9:30 AM

Method 2:

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

Cost per Cantaloupe

$$7 \div 3 = \$2.33$$

$$21 \div 2.33$$

9 cantaloupes

- 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?

Dirhams per dollar

$$\frac{4}{1} = 4 \times 5 = 20 \text{ Dirhams}$$

Sep 26-9:30 AM