



Proportions - word problems

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

- 1) Shreya enlarged the size of a rectangle to a width of 5.5 in. What is the new height if it was originally 1.1 in wide and 6.8 in tall?
- 2) Arjun reduced the size of a photo to a width of 1 in. What is the new height if it was originally 32.9 in tall and 7 in wide?
- 3) The money used in Peru is called the Nuevo Sole. The exchange rate is \$8.80 for 1 Nuevo Sole. Find how many dollars you would receive if you exchanged 32.4 Nuevos Soles.
- 4) The currency in Tajikistan is the Somoni. The exchange rate is approximately 1 Somoni for every \$9.70. At this rate, how many Somoni would you get if you exchanged \$436.60?
- 5) Shanice took a trip to Tajikistan. Upon leaving she decided to convert all of her Somoni back into dollars. How many dollars did she receive if she exchanged 43.5 Somoni at a rate of \$1 for every 3.2 Somoni?
- 6) Trevon was planning a trip to the United Arab Emirates. Before going, he did some research and learned that the exchange rate is \$6.90 = 1 Dirham. How many Dirhams would he get if he exchanged \$264.70?

7) One bunch of fennel costs \$2.30. How many bunches can you buy for \$39.10?

8) 42 bulbs of garlic cost \$16.20. How many bulbs can you buy for \$2.70?

9) Five bulbs of elephant garlic cost \$9.95. How many bulbs can you buy for \$49.75?

10) If you can buy 24 bunches of fennel for \$54.96 then how many can you buy with \$13.74?

11) Dan enlarged the size of a rectangle to a height of 22.4 in. What is the new width if it was originally 5.6 in tall and 1.4 in wide?

12) Stephanie reduced the size of a rectangle to a width of 5.5 in. What is the new height if it was originally 20.7 in tall and 16.5 in wide?

- 13) Nicole reduced the size of a photo to a width of 4.6 in. What is the new height if it was originally 9.4 in tall and 9.2 in wide?
- 14) Kayla took a trip to the United Arab Emirates. Upon leaving she decided to convert all of her Dirhams back into dollars. How many dollars did she receive if she exchanged 31.2 Dirhams at a rate of \$8.40 to 1 Dirham?
- 15) The currency in Poland is the Zlotych. The exchange rate is approximately 3 Zlotych = \$1. At this rate, how many Zlotych would you get if you exchanged \$10?
- 16) The money used in the eastern Caribbean islands is called the Eastern Caribbean Dollar. The exchange rate is \$4 = 1 Eastern Caribbean Dollar. Find how many Eastern Caribbean Dollars you would receive if you exchanged \$162.60.
- 17) The currency in Jordan is the Dinar. The exchange rate is approximately \$1.40 = 1 Dinar. At this rate, how many Dinars would you get if you exchanged \$46.10?
- 18) If you can buy one red potato for \$0.45 then how many can you buy with \$3.60?

19) 28 packages of fresh chives cost \$55.72.
How many packages of fresh chives can you buy for \$13.93?

20) If you can buy nine cantaloupes for \$22.50 then how many can you buy with \$7.50?

21) Ndiba bought one package of grape tomatoes for \$2.50. How many packages of grape tomatoes can Mei buy if she has \$22.50?

22) Kim reduced the size of a rectangle to a height of 2.4 in. What is the new width if it was originally 30.8 in wide and 52.8 in tall?

23) Mark reduced the size of a rectangle to a height of 2.4 in. What is the new width if it was originally 42.7 in wide and 16.8 in tall?

24) A photo is 4 in tall and 1.5 in wide. If it is enlarged to a width of 18 in then how tall will it be?

- 25) A photo is 2.6 in tall and 1.4 in wide. If it is enlarged to a width of 12.6 in then how tall will it be?
- 26) Brenda took a trip to Sweden. Upon leaving she decided to convert all of her Kronor back into dollars. How many dollars did she receive if she exchanged 42.7 Kronor at a rate of \$7.60 for 7.1 Kronor?
- 27) The money used in Oman is called the Rial. The exchange rate is \$6.90 for 1 Rial. Find how many dollars you would receive if you exchanged 32.1 Rials.
- 28) Beth was planning a trip to South Africa. Before going, she did some research and learned that the exchange rate is $\$5.70 = 7.4$ Rand. How many Rand would she get if she exchanged \$24.60?
- 29) Kali bought four red potatoes for \$1.80. How many red potatoes can Shayna buy if she has \$0.90?
- 30) Eight bags of carrots cost \$27.20. How many bags of carrots can you buy for \$13.60?

Answers to Proportions - word problems

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|------------------------------------|-----------------|-----------------|--------------|
| 1) 34 in | 2) 4.7 in | 3) \$285.12 | 4) 45 Somoni |
| 5) \$13.59 | 6) 38.4 Dirhams | 7) 17 | 8) 7 |
| 9) 25 | 10) 6 | 11) 5.6 in | 12) 6.9 in |
| 13) 4.7 in | 14) \$262.08 | 15) 30 Zlotych | |
| 16) 40.7 Eastern Caribbean Dollars | | 17) 32.9 Dinars | 18) 8 |
| 19) 7 | 20) 3 | 21) 9 | 22) 1.4 in |
| 23) 6.1 in | 24) 48 in | 25) 23.4 in | 26) \$45.71 |
| 27) \$221.49 | 28) 31.9 Rand | 29) 2 | 30) 4 |