

Practice Problems for Measurement
from www.topmath.info

1 Lisa traveled at 27 miles per hour for 108 miles. What was the total number of hours that Lisa traveled?

2 Sharon traveled at 539 kilometers in 11 hours. What was the average speed in kilometers per hour that Sharon traveled?

3 Fred has 4 more nickels than pennies, and 3 more dimes than nickels. If the number of pennies that Fred has is p , what formula gives the total value of Fred's coins in cents?

4 Right now, the price of a t-shirt is \$13.26. If the price decreases by 23.2%, what will the new price be (to the nearest cent)?

5 A man has 4 quarters, 2 dimes, 11 nickels, and 8 pennies. What is the total amount of money in dollars?

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6 If a piece of twine 520 inches long is cut into as many one foot segments as possible, how many inches of twine will be left over?

7 How many square inches are in a square yard?

8 How many cups are in a pint?

9 How many fluid ounces are in a gallon?

10 How many milliliters equal one megaliter?

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11 What prefix means 10 to the -6 power?

12 A temperature of -22 degrees Fahrenheit is equivalent to a temperature of how many degrees Celsius?

13 A temperature of 37 degrees Celsius is equivalent to a temperature of how many degrees Fahrenheit (rounded to the nearest tenth)?

14 How many grams are in 6.8 kilograms?

15 A pile of sugar weighing 407 ounces is to be divided into 3 -pound bags. How many ounces of sugar will be left over?

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1 ANSWER: 4

2 ANSWER: 49

3 ANSWER: $16p + 90$. EXPLANATION: If Fred has no pennies, then Fred has 4 nickels (20 cents), and 7 dimes (70 cents), for a total of 90 cents. Each penny added also adds an extra nickel and dime, for a total of 16 cents. Therefore, Fred has 16 cents for each nickel (16p), plus 90 cents in nickels and dimes when there are no pennies.

4 ANSWER: \$10.18. EXPLANATION: Decreasing the price of something by 23.2% is the same as multiplying the price by 0.768. Multiply \$13.26 by 0.768 and round your answer to the second decimal point to obtain the answer.

5 ANSWER: 1.83

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6 ANSWER: 4

7 ANSWER: 1296

8 ANSWER: 2

9 ANSWER: 128

10 ANSWER: 1000000000

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11 ANSWER: micro

12 ANSWER: -30

13 ANSWER: 98.6

14 ANSWER: 6,800

15 ANSWER: 23