

Practice Problems for Measurement
from www.topmath.info

1 How many millimeters equal 2.4 meters?

2 A change in temperature of 10 Celsius degrees is equivalent to a change of how many Fahrenheit degrees?

3 At how many Fahrenheit degrees does water freeze?

4 A temperature of -99 degrees Fahrenheit is equivalent to a temperature of how many degrees Celsius (rounded to the nearest tenth)?

5 How many ounces are in 6 pounds and 15 ounces?

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6 A pile of sand weighing 761 ounces is to be divided into 3-pound bags. How many ounces of sand will be left over?

7 Sharon drives to Richaneau at an average speed of 21 miles per hour. Sharon makes the return trip at an average speed of 42 miles per hour. If the total driving time is 9 hours, what is the total distance driven?

8 Tom traveled at 72 kilometers per hour for 11 hours. What was the total number of kilometers that Tom traveled?

9 Lisa has 2 more dimes than nickels, and 3 more quarters than dimes. If the number of nickels that Lisa has is x , what formula gives the total value of Lisa's coins in cents?

10 Right now, the price of a backpack is \$22.54. If the price increases by 3.3%, what will the new price be (to the nearest cent)?

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11 A woman has 3 quarters, 9 dimes, 7 nickels, and 8 pennies. What is the total amount of money in dollars?

12 How many inches equal 3 feet and 8 inches?

13 If Richard bicycled 1.37 km on Monday, and 512 meters on Tuesday, what is the total number of meters that Richard bicycled?

14 How many cubic millimeters are in a cubic centimeter?

15 How many quarts are in a gallon?

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1 ANSWER: 2400

2 ANSWER: 18

3 ANSWER: 32

4 ANSWER: -72.8

5 ANSWER: 111

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6 ANSWER: 41

7 ANSWER: 252 miles. EXPLANATION: Since the trip to Richaneau is at half the speed of the return trip, it must have taken twice as long as the return trip, or $\frac{2}{3}$ of the total time. Since the total time is 9 hours, the trip to Richaneau must be 6 hours long. We multiply this number by the speed of the first trip to get the distance one way, and then double it to get the total distance.

8 ANSWER: 792

9 ANSWER: $40x + 145$. EXPLANATION: If Lisa has no nickels, then Lisa has 2 dimes (20 cents), and 5 quarters (125 cents), for a total of 145 cents. Each nickel also implies an extra dime and quarter, for a total of 40 cents. Therefore, Lisa has 40 cents for each nickel ($40x$), plus 145 cents in dimes and quarters when there are no nickels.

10 ANSWER: \$23.28. EXPLANATION: Increasing the price of something by 3.3% is the same as multiplying the price by 1.033. Multiply \$22.54 by 1.033 and round your answer to the second decimal point to obtain the answer.

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11 ANSWER: 2.08

12 ANSWER: 44

13 ANSWER: 1882

14 ANSWER: 1000

15 ANSWER: 4