

**Practice Problems for Measurement**  
from [www.topmath.info](http://www.topmath.info)

1 Sharon has 5 dimes, 11 nickels, and 11 pennies. What is the total amount of money in dollars?

2 A boy has 6 quarters, 4 dimes, 9 nickels, and 10 pennies. What is the total amount of money in dollars?

3 If Richard swam 2.51 km on Monday, and 851 meters on Tuesday, what is the total number of kilometers that Richard swam?

4 How many square meters are in a square kilometer?

5 How many pints are in a quart?

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6 To the nearest liter, how many liters equal 4 gallons?

7 How many milliliters equal 9.2 megaliters?

8 A change in temperature of 18 Fahrenheit degrees is equivalent to a change of how many Celsius degrees?

9 At how many Celsius degrees does water freeze?

10 A temperature of 66 degrees Fahrenheit is equivalent to a temperature of how many degrees Celsius (rounded to the nearest tenth)?

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11 How many pounds does it take to equal 32 ounces?

12 In one week, Leah spent 47, 111, 79, 75, and 111 minutes doing homework. To the nearest hour, what was the total in hours?

13 Jack traveled at 16 miles per hour for 10 hours. What was the total number of miles that Jack traveled?

14 Leah traveled at 24 kilometers per hour for 96 kilometers. What was the total number of hours that Leah traveled?

15 Marcia has 4 more dimes than nickels, and 4 more quarters than dimes. If the number of nickels that Marcia has is  $x$ , what formula gives the total value of Marcia's coins in cents?

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1 ANSWER: 2.15

2 ANSWER: 2.45

3 ANSWER: 3.361

4 ANSWER: 1000000

5 ANSWER: 2

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6 ANSWER: 15

7 ANSWER: 9,200,000,000

8 ANSWER: 10

9 ANSWER: 0

10 ANSWER: 18.9

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11 ANSWER: 2

12 ANSWER: 7

13 ANSWER: 160

14 ANSWER: 4

15 ANSWER:  $40x + 240$ . EXPLANATION: If Marcia has no nickels, then Marcia has 4 dimes (40 cents), and 8 quarters (200 cents), for a total of 240 cents. Each nickel also implies an extra dime and quarter, for a total of 40 cents. Therefore, Marcia has 40 cents for each nickel ( $40x$ ), plus 240 cents in dimes and quarters when there are no nickels.