

Practice Problems for Measurement
from www.topmath.info

- 1 A change in temperature of 20 Celsius degrees is equivalent to a change of how many Fahrenheit degrees?
- 2 At how many Celsius degrees does water boil?
- 3 A temperature of -103 degrees Fahrenheit is equivalent to a temperature of how many degrees Celsius (rounded to the nearest tenth)?
- 4 How many pounds does it take to equal 512 ounces?
- 5 In one week, Fred spent 61, 61, 79, 77, and 61 minutes gardening. To the nearest hour, what was the total in hours?

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6 Adam traveled at 48 miles per hour for 11 hours. What was the total number of miles that Adam traveled?

7 Fred traveled at 74 kilometers per hour for 666 kilometers. What was the total number of hours that Fred traveled?

8 John has 2 more dimes than nickels, and 6 more quarters than dimes. If the number of nickels that John has is x , what formula gives the total value of John's coins in cents?

9 Right now, the price of a t-shirt is \$13.00. If the price increases by 11.3%, what will the new price be (to the nearest cent)?

10 A girl has 2 quarters, 3 dimes, 3 nickels, and 5 pennies. What is the total amount of money in dollars?

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11 How many feet does it take to equal 228 inches?

12 If Fred swam 3.17 km on Monday, and 678 meters on Tuesday, what is the total number of meters that Fred swam?

13 How many cubic millimeters are in a cubic meter?

14 How many fluid ounces are in a pint?

15 How many microliters equal one liter?

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1 ANSWER: 36

2 ANSWER: 100

3 ANSWER: -75

4 ANSWER: 32

5 ANSWER: 6

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6 ANSWER: 528

7 ANSWER: 9

8 ANSWER: $40x + 220$. EXPLANATION: If John has no nickels, then John has 2 dimes (20 cents), and 8 quarters (200 cents), for a total of 220 cents. Each nickel also implies an extra dime and quarter, for a total of 40 cents. Therefore, John has 40 cents for each nickel ($40x$), plus 220 cents in dimes and quarters when there are no nickels.

9 ANSWER: \$14.47. EXPLANATION: Increasing the price of something by 11.3% is the same as multiplying the price by 1.113. Multiply \$13.00 by 1.113 and round your answer to the second decimal point to obtain the answer.

10 ANSWER: 1

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11 ANSWER: 19

12 ANSWER: 3848

13 ANSWER: 1000000000

14 ANSWER: 16

15 ANSWER: 1,000,000. EXPLANATION: The prefix micro means $1/1,000,000$. Therefore, there are 1,000,000 microliters in one liter.