

## Applying Your Division Skills

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In each problem pay close attention to the language that tells you to divide.

A problem may give information about several things and ask you to find information for one of these things.

You may be asked to find an average which is a total divided by the number of items that make up the total.

Or, you may be asked to calculate a **rate**. A rate is an amount whose unit of measure contains a word such as *per* or *for each*. A slash (/) often indicates rate, for example miles/gallon for miles per gallon.

**Solve and write the correct label, such as pounds or miles, next to each answer.**

1. Together, the four members of the Rosa family weigh 508.8 pounds. What is the average weight of one member of the family?
2. Mark drove a total of 1,247.5 miles in 5 days. What was the average number of miles he drove each day?
3. The cost of 3.5 yards of material is \$33.60. Find the cost of 1 yard of the material.
4. Margie made \$477.40 last week. She makes \$12.40 an hour. How many hours did she work last week?
5. If a plane flew 2,419.2 miles in 6.3 hours, what was its average speed in miles per hour?
6. If 2.3 pounds of vegetables cost \$3.68, what is the price of 1 pound of vegetables?

7. There are 1.6 kilometers in a mile. How many miles are there in 36.8 kilometers?
  
8. There are 2.54 centimeters in 1 inch. How many inches are there in 45.72 centimeters?
  
9. In baseball, a batting average is the number of hits a player gets divided by the number of times he is at bat. Batting averages are measured in *thousandths*. Find the batting average of a player who gets 17 hits in 52 times at bat. (**Hint:** Divide to the ten-thousandths place and round your answer to the nearest thousandth.)
  
10. Find the batting average of another baseball player who got 14 hits in 45 times at bat.
  
11. In basketball, a scoring average is the number of points a player gets divided by the number of games he plays. Basketball scoring averages are measured in *tenths*. One season Michael Jordan scored 2,431 points in 82 games. Find his scoring average for the season. (**Hint:** Divide to the hundredths place and round your answer to the nearest tenth.)
  
12. Find the scoring average of another basketball player who scored 1,710 points in 80 games.
  
13. Sandra drove 475 miles on 22 gallons of gasoline. To the nearest tenth, how many miles per gallon did she get?
  
14. In one week a factory produced 700 chairs. There are 18 workers in the factory. To the nearest whole number, how many chairs were produced per worker that week?
  
15. A post office handled 1,500 pieces of out-going mail in 9 hours. To the nearest whole number, how many pieces of mail were handled per hour?