

VOCABULARY
additive
multiplicative

► Solve Comparison Problems

For each problem, draw a model and write *additive* or *multiplicative* to identify the type of comparison. Then write and solve an equation to solve the problem.

Show your model here.

1. Newborn baby Lila is 44.5 centimeters tall. Her older brother Tremaine is 4 times as tall. How tall (t) is Tremaine?

Type of comparison: _____

Equation and answer: _____

2. Brandon has $\frac{1}{4}$ cup of flour, and would like to make a recipe that requires $1\frac{5}{8}$ cups of flour. How many more cups (c) of flour are needed for the recipe?

Type of comparison: _____

Equation and answer: _____

3. Imani completed a 200-meter race in 25.06 seconds. Talia completed the same race in 1.17 fewer seconds. How long (l) did it take Talia to complete the race?

Type of comparison: _____

Equation and answer: _____

4. A high school has 1,446 students enrolled. A middle school has $\frac{1}{6}$ as many students enrolled as the high school. How many students (m) are enrolled in the middle school?

Type of comparison: _____

Equation and answer: _____

► Practice

Write an equation and use it to solve the problem.
Draw a model if you need to.

Show your work.

5. At the time of the 2010 Ohio census, 155,416 more people lived in Cincinnati than lived in Dayton. How many people (p) lived in Dayton if 296,943 people lived in Cincinnati?
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6. A woodworking machine decreased the thickness of a board from $\frac{3}{4}$ of an inch to $\frac{9}{16}$ of an inch. By what number of inches (i) did the thickness of the board decrease?
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7. The area of Alondra's home is 9 times the area of the family room in her home. The family room has an area of 192 square feet. What is the area of Alondra's home (h)?
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8. Tyler has saved \$14.25 of his allowance. He would like to buy a computer game that costs \$15.70 more than the amount he has saved. What is the cost (c) of the game?
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9. To prepare for a test, Esmeralda studied for 40 minutes. Mallory studied for 50 minutes. How many times (t) as long as Mallory did Esmeralda study?
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10. A flagpole has a height of 3.2 meters. A nearby tree has an height of 25.6 meters. When compared to the flagpole, how many times as tall (t) is the tree?
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11. A school fundraiser collected \$776. Sun-Woo's class collected $\frac{1}{16}$ of that amount. What amount of money (m) was collected by Sun-Woo's class?
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