

**Practice Problems for Parts of Whole Things**  
from [www.topmath.info](http://www.topmath.info)

1 What is  $\frac{1}{9} \times \frac{2}{5}$  in lowest terms?

2 What is 118% of 100?

3 A small town had 1000 people in 1961, and 1150 people a year later. Express this growth rate as a percentage of the people originally present.

4 What is 146% of 600?

5 17 is 17% percent of what number?

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6 7007 is 143% of what number?

7 Elaine has 6 puzzles from a group of 7 puzzles. Write the ratio of the puzzles that Elaine has to the remaining puzzles in lowest terms.

8 Adam has 10 puzzles, and John has 14 puzzles. Write the fraction of the total puzzles that Adam has in lowest terms.

9 In the time it takes Jack to move 10 feet, Jack's baby brother can move 3 inches. Write the ratio of Jack's speed to Jack's baby brother's speed in lowest terms.

10 In the time it takes Adam to move 4 feet, Adam's baby brother can move 7 inches. Write the ratio of Adam's baby brother's speed to Adam's speed in lowest terms.

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11 In the time it takes Kelly to move 6 meters, Kelly's baby brother can move 7 millimeters. Write the ratio of Kelly's speed to Kelly's baby brother's speed in lowest terms.

12 In the time it takes Richard to move 5 meters, Richard's toy car can move 20 millimeters. Write the ratio of Richard's toy car's speed to Richard's speed in lowest terms.

13 Leah ate 5 pieces of a cake that had been cut into 8 equal pieces. What fraction of the cake did Leah eat?

14 Marcia has 80 pens from a group of 90 pens. Write the fraction of these pens that Marcia DOES NOT HAVE as a fraction in lowest terms.

15 What is  $\frac{4}{9} - \frac{2}{9}$  in lowest terms?

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1 ANSWER:  $\frac{2}{45}$

2 ANSWER: 118

3 ANSWER: 15%. EXPLANATION: The number of people increased by  $1150 - 1000$ , or 150 people. Dividing this by the number of people present before the increase (1000) gives 0.15, or 15%.

4 ANSWER: 876

5 ANSWER: 100

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6 ANSWER: 4900

7 ANSWER: 6:1

8 ANSWER:  $5/12$

9 ANSWER: 40:1

10 ANSWER: 7:48

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11 ANSWER: 6000:7

12 ANSWER: 1:250

13 ANSWER:  $\frac{5}{8}$

14 ANSWER:  $\frac{1}{9}$

15 ANSWER:  $\frac{4}{9}$