

Practice Problems for Parts of Whole Things
from www.topmath.info

- 1 Leah has 20 balls from a group of 70 balls. Write the fraction of the balls that Leah has a fraction in lowest terms.
- 2 Sharon has 10 puzzles from a group of 55 puzzles. Write the fraction of these puzzles that Sharon DOES NOT HAVE as a fraction in lowest terms.
- 3 What is $\frac{9}{10} - \frac{1}{10}$ in lowest terms?
- 4 Bob swam $4\frac{1}{8}$ miles on Monday and $3\frac{1}{4}$ miles on Tuesday. What is the total number of FEET Bob swam?
- 5 A high school had 1200 people in 1996, and then the number of people increased by 12% over the next year. How many people were in the high school in 1997?

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6 Sedtown is completely contained within Shwabova. If the population of Sedtown is 40% of the population of the rest of Shwabova, what percentage of the total population of Shwabova lives in Sedtown?

7 2664 is what percent of 1800?

8 2840 is 142% of what number?

9 Sharon has 7 balls from a group of 70 balls. Write the ratio of the balls that Sharon has to the remaining balls in lowest terms.

10 Bob has 4 model airplanes from a group of 11 model airplanes. Write the ratio of the model airplanes that Bob has to the remaining model airplanes in lowest terms.

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- 11 In the time it takes George to move 4 feet, George's toy car can move 11 inches. Write the ratio of George's speed to George's toy car's speed in lowest terms.
- 12 In the time it takes George to move 8 feet, George's pet turtle can move 8 inches. Write the ratio of George's pet turtle's speed to George's speed in lowest terms.
- 13 In the time it takes Shirley to move 7 meters, Shirley's baby brother can move 80 centimeters. Write the ratio of Shirley's speed to Shirley's baby brother's speed in lowest terms.
- 14 In the time it takes Gail to move 3 meters, Gail's baby brother can move 45 centimeters. Write the ratio of Gail's baby brother's speed to Gail's speed in lowest terms.
- 15 Kelly ate 4 pieces of a large cookie that had been cut into 9 equal pieces. What fraction of the large cookie did Kelly eat?

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1 ANSWER: $2/7$

2 ANSWER: $9/11$

3 ANSWER: $9/10$

4 ANSWER: 38940

5 ANSWER: 1344. EXPLANATION: An increase of 12% is equivalent to multiplying by 1.12. Therefore, to figure out how many people were present after the increase, simply multiply 1200 by 1.12.

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6 ANSWER: 28.57%. EXPLANATION: For every 40 residents of Sedtown, there are 100 people who reside in Shwabova outside of Sedtown. Thus, the population of Sedtown is $40/140$ of the total population of Shwabova. This fraction simplifies to $2/7$; divide the numerator into the denominator to find the answer. Move the decimal point two places to the right to make it a percentage, of course.

7 ANSWER: 148

8 ANSWER: 2000

9 ANSWER: 1:9

10 ANSWER: 4:7

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11 ANSWER: 48:11

12 ANSWER: 1:12

13 ANSWER: 35:4

14 ANSWER: 3:20

15 ANSWER: 4/9