

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

1 A subdivision had 2706 people in 1959, which was an increase of 23% from 1958. How many people were in the subdivision in 1958?

2 What is 23% of P if 0.23% of P is 0.8?

3 What is 6% of 27?

4 4059 is what percent of 3300?

5 Elaine has 18 puzzles from a group of 27 puzzles. Write the ratio of the puzzles that Elaine has to the remaining puzzles in lowest terms.

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6 Bob has 2 model airplanes from a group of 3 model airplanes. Write the ratio of the model airplanes that Bob has to the remaining model airplanes in lowest terms.

7 If p is directly proportional to r , and $p=14$ when $r=22$, what is r when $p=17$?

8 In the time it takes Marcia to move 11 feet, Marcia's baby brother can move 10 inches. Write the ratio of Marcia's speed to Marcia's baby brother's speed in lowest terms.

9 In the time it takes Leah to move 10 meters, Leah's toy car can move 10 centimeters. Write the ratio of Leah's speed to Leah's toy car's speed in lowest terms.

10 In the time it takes Tom to move 2 meters, Tom's pet turtle can move 9 centimeters. Write the ratio of Tom's speed to Tom's pet turtle's speed in lowest terms.

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11 John ate 2 pieces of a cake that had been cut into 3 equal pieces. What fraction of the cake did John eat?

12 Bob has 70 books from a group of 80 books. Write the fraction of the books that Bob has a fraction in lowest terms.

13 Fred has 10 balls from a group of 40 balls. Write the fraction of these balls that Fred DOES NOT HAVE as a fraction in lowest terms.

14 What is $\frac{3}{9} \times \frac{4}{6}$ in lowest terms?

15 Richard swam $4\frac{3}{8}$ miles on Monday and $4\frac{1}{4}$ miles on Tuesday. What is the total number of FEET Richard swam?

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1 ANSWER: 2200. EXPLANATION: An increase of 23% is equivalent to multiplying by 1.23. Therefore, to figure out how many people were present in the year before the increase, simply divide 2706 by 1.23.

2 ANSWER: 80. EXPLANATION: Because 23 is 100 times 0.23, you obtain the answer by multiplying 0.8 by 100.

3 ANSWER: 1.62

4 ANSWER: 123

5 ANSWER: 2:1

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6 ANSWER: 2:1

7 ANSWER: $26 \frac{5}{7}$. EXPLANATION: The value of p changes from 14 to 17. This requires multiplying by $\frac{17}{14}$. Since p and r are directly proportional, we must also multiply the first value of r (22) by $\frac{17}{14}$ to get the answer.

8 ANSWER: 66:5

9 ANSWER: 100:1

10 ANSWER: 200:9

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11 ANSWER: $\frac{2}{3}$

12 ANSWER: $\frac{7}{8}$

13 ANSWER: $\frac{3}{4}$

14 ANSWER: $\frac{2}{9}$

15 ANSWER: 45540