

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

- 1 If p is directly proportional to q , and $p=15$ when $q=24$, what is p when $q=18$?

- 2 In the time it takes Lisa to move 10 feet, Lisa's toy car can move 11 inches. Write the ratio of Lisa's speed to Lisa's toy car's speed in lowest terms.

- 3 In the time it takes Marcia to move 5 meters, Marcia's baby sister can move 20 centimeters. Write the ratio of Marcia's speed to Marcia's baby sister's speed in lowest terms.

- 4 In the time it takes Elaine to move 11 meters, Elaine's pet turtle can move 50 centimeters. Write the ratio of Elaine's speed to Elaine's pet turtle's speed in lowest terms.

- 5 Fred ate 5 pieces of a large cookie that had been cut into 6 equal pieces. What fraction of the large cookie did Fred eat?

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6 Jack has 27 books from a group of 63 books. Write the fraction of the books that Jack has a fraction in lowest terms.

7 Fred has 14 coins from a group of 21 coins. Write the fraction of these coins that Fred DOES NOT HAVE as a fraction in lowest terms.

8 What is $\frac{5}{12} \times \frac{2}{4}$ in lowest terms?

9 Gail walked $2\frac{1}{4}$ miles on Monday and $2\frac{1}{2}$ miles on Tuesday. What is the total number of FEET Gail walked?

10 A small town had 1100 people in 1964, and 1155 people a year later. Express this growth rate as a percentage of the people originally present.

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11 What is 87% of 100?

12 1440 is what percent of 1200?

13 1649 is 97% of what number?

14 Richard has 81 balls from a group of 90 balls. Write the ratio of the balls that Richard has to the remaining balls in lowest terms.

15 Fred has 5 crayons, and John has 4 crayons. Write the fraction of the total crayons that Fred has in lowest terms.

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1 ANSWER: $11 \frac{1}{4}$. EXPLANATION: The value of q changes from 24 to 18. This requires multiplying by $\frac{3}{4}$. Since p and q are directly proportional, we must also multiply the first value of p (15) by $\frac{3}{4}$ to get the answer.

2 ANSWER: 120:11

3 ANSWER: 25:1

4 ANSWER: 22:1

5 ANSWER: $\frac{5}{6}$

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6 ANSWER: $3/7$

7 ANSWER: $1/3$

8 ANSWER: $5/24$

9 ANSWER: 25080

10 ANSWER: 5%. EXPLANATION: The number of people increased by $1155 - 1100$, or 55 people. Dividing this by the number of people present before the increase (1100) gives 0.05, or 5%.

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11 ANSWER: 87

12 ANSWER: 120

13 ANSWER: 1700

14 ANSWER: 9:1

15 ANSWER: 5/9