

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

- 1 Sharon has 11 crayons, and George has 17 crayons. Write the fraction of the total crayons that Sharon has in lowest terms.

- 2 In the time it takes John to move 2 feet, John's baby sister can move 11 inches. Write the ratio of John's speed to John's baby sister's speed in lowest terms.

- 3 In the time it takes Jack to move 4 feet, Jack's pet turtle can move 7 inches. Write the ratio of Jack's pet turtle's speed to Jack's speed in lowest terms.

- 4 In the time it takes Adam to move 8 meters, Adam's pet turtle can move 10 centimeters. Write the ratio of Adam's speed to Adam's pet turtle's speed in lowest terms.

- 5 In the time it takes Claire to move 12 meters, Claire's baby brother can move 22 centimeters. Write the ratio of Claire's baby brother's speed to Claire's speed in lowest terms.

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6 Elaine ate 1 piece of a pie that had been cut into 4 equal pieces. What fraction of the pie did Elaine eat?

7 Tom has 9 pencils from a group of 27 pencils. Write the fraction of the pencils that Tom has a fraction in lowest terms.

8 What is $\frac{5}{9} + \frac{1}{9}$ in lowest terms?

9 Leah swam $3\frac{1}{2}$ miles on Monday and $2\frac{3}{8}$ miles on Tuesday. What is the total number of miles Leah swam?

10 A community college had 848 people in 1976, which was an increase of 6% from 1975. How many people were in the community college in 1975?

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11 What is 23% of X if 0.23% of X is 8.7?

12 What is 142% of 92?

13 7137 is what percent of 6100?

14 Marcia has 55 pens from a group of 60 pens. Write the ratio of the pens that Marcia has to the remaining pens in lowest terms.

15 George has 5 balls from a group of 6 balls. Write the ratio of the balls that George has to the remaining balls in lowest terms.

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1 ANSWER: $11/28$

2 ANSWER: $24:11$

3 ANSWER: $7:48$

4 ANSWER: $80:1$

5 ANSWER: $11:600$

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6 ANSWER: $\frac{1}{4}$

7 ANSWER: $\frac{1}{3}$

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

9 ANSWER: $5\frac{7}{8}$

10 ANSWER: 800. EXPLANATION: An increase of 6% is equivalent to multiplying by 1.06. Therefore, to figure out how many people were present in the year before the increase, simply divide 848 by 1.06.

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11 ANSWER: 870. EXPLANATION: Because 23 is 100 times 0.23, you obtain the answer by multiplying 8.7 by 100.

12 ANSWER: 130.64

13 ANSWER: 117

14 ANSWER: 11:1

15 ANSWER: 5:1