

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

1 What is $\frac{8}{11} + \frac{1}{11}$ in lowest terms?

2 Leah ran $4\frac{5}{8}$ miles on Monday and $3\frac{1}{8}$ miles on Tuesday. What is the total number of miles Leah ran?

3 A large village had 784 people in 1984, which was an increase of 12% from 1983. How many people were in the large village in 1983?

4 What is 16% of S if 0.16% of S is 0.2?

5 What is 89% of 4?

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6 5439 is what percent of 3700?

7 Leah has 18 puzzles from a group of 48 puzzles. Write the ratio of the puzzles that Leah has to the remaining puzzles in lowest terms.

8 George has 1 pencils from a group of 7 pencils. Write the ratio of the pencils that George has to the remaining pencils in lowest terms.

9 If s is directly proportional to v , and $s=11$ when $v=21$, what is v when $s=18$?

10 In the time it takes Adam to move 10 feet, Adam's pet turtle can move 6 inches. Write the ratio of Adam's speed to Adam's pet turtle's speed in lowest terms.

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- 11 In the time it takes Shirley to move 8 meters, Shirley's baby brother can move 6 centimeters. Write the ratio of Shirley's speed to Shirley's baby brother's speed in lowest terms.
- 12 In the time it takes Tom to move 4 meters, Tom's pet turtle can move 10 centimeters. Write the ratio of Tom's speed to Tom's pet turtle's speed in lowest terms.
- 13 Leah ate 3 pieces of a pizza that had been cut into 7 equal pieces. What fraction of the pizza did Leah eat?
- 14 Bob has 8 pens from a group of 18 pens. Write the fraction of the pens that Bob has a fraction in lowest terms.
- 15 John has 4 books from a group of 18 books. Write the fraction of these books that John DOES NOT HAVE as a fraction in lowest terms.

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1 ANSWER: $9/11$

2 ANSWER: $7 \frac{3}{4}$

3 ANSWER: 700. EXPLANATION: An increase of 12% is equivalent to multiplying by 1.12. Therefore, to figure out how many people were present in the year before the increase, simply divide 784 by 1.12.

4 ANSWER: 20. EXPLANATION: Because 16 is 100 times 0.16, you obtain the answer by multiplying 0.2 by 100.

5 ANSWER: 3.56

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6 ANSWER: 147

7 ANSWER: 3:5

8 ANSWER: 1:6

9 ANSWER: $34\frac{4}{11}$. EXPLANATION: The value of s changes from 11 to 18. This requires multiplying by $\frac{18}{11}$. Since s and v are directly proportional, we must also multiply the first value of v (21) by $\frac{18}{11}$ to get the answer.

10 ANSWER: 20:1

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11 ANSWER: 400:3

12 ANSWER: 40:1

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

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

15 ANSWER: $\frac{7}{9}$