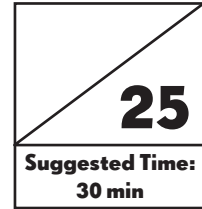


CHAPTER TEST A**Ratio****Concepts and Skills** (10 × 1 point = 10 points)**Write the ratios.**

- Joe bought 17 carrots and 12 potatoes.
The ratio of the number of carrots to the number of potatoes is
_____ : _____.
- Keisha has 4 cups of orange juice and 11 cups of pineapple juice.
The ratio of the number of cups of orange juice to the total number of cups
of juice is _____ : _____.

State whether each of the following can be expressed as a ratio.

- 7 ft and 15 in. _____
- 10 kg and 4 m² _____

Write the missing term in each pair of equivalent ratios.

- 6 : 5 = _____ : 30
- 63 : 90 = 7 : _____

Write each ratio in simplest form.

- 32 : 14 = _____
- 54 : 88 = _____

Solve.

- The ratio of the length to the width of a rectangle is 15 : 8. How many times
the width of the rectangle is the length of the rectangle? _____
- The ratio of the number of fiction books to the number of reference
books in a library is 9 : 5. What fraction of the books are reference
books? _____

Name: _____

Date: _____

Problem Solving (Questions 11 and 12: 2×2 points = 4 points, Question 13: 3 points,
Questions 14 and 15: 2×4 points = 8 points)

Solve. Show your work.

11. Alyce has 60 marbles. Of the marbles, 45 are red and the rest are black. What is the ratio of the number of black marbles to the number of red marbles?
12. At a charity function, \$150,045 was donated by three companies A, B, and C in the ratio 7 : 5 : 9. How much money did Company A donate?
13. A fox, a coyote, and a wolf weigh a total of 120 pounds. The ratio of the weight of the fox to the weight of the coyote is 3 : 8. The weight of the coyote is 32 pounds. What is the weight of the wolf?