Name:

Algebra

Section 7.1

**Write each ratio in simplest form**

1. 14 : 21 2. 24x: 8x

3. s2 / (3s)2 4. 64a3b / 16ab4

5. 20 min : 2 h 6. 6 m : 120 cm

7. 6 wk : 3 days 8. 5 km : 450 cm

9. 1 lb : 7 oz 10. 150 g : 3 kg

**Solve**

11. Find two numbers in the ratio 4 : 5 whose sum is 45.

12. Together there are 180 players and coaches in the town soccer league. If the player-coach ratio is 9 : 1, how many players are there?

13. The perimeter of a rectangle is 96 cm. Find the dimensions of the rectangle if the ratio of the length to the width is 7 : 5.

14. The lengths of the three sides of a triangle are in the ratio 3 : 5 : 6. The perimeter of the triangle is 21 cm. Find the length of each side of the triangle.