

Name: _____

Unit 7: Similar Triangles

Date: _____

7.1A Ratios & Proportions

Directions: Write the ratio in simplest form.

1. 18 buses to 66 cars

2. 180 red marbles to 145 blue marbles

3. The hockey team played 82 regular season games last year. If they won 44 games, what is the ratio of wins to losses?

4. In the word **GEOMETRY** what is the ratio of vowels to total letters.

5. The ratio of the measures of two **complementary** angles is 7:8. What is the measure of the smaller angle?

6. The sides of rectangle are in the ratio 7:13. The **perimeter** of the rectangle is 140 yds.

What is the length and width of the rectangle?

What is the **AREA** of the rectangle? ($A = l \cdot w$)

Directions: Solve each proportion.

7. $\frac{x-3}{18} = \frac{12}{9}$

8. $\frac{x-16}{x+6} = \frac{3}{5}$

9. Mika can eat 21 hot dogs in 6 minutes. She wants to know how many minutes (m) it would take her to eat 35 hot dogs if she can keep up the same pace.

10. The width of Ms. Elsasser's a canoe is 28 in. If the width of MS. Hartkopf's paddle board is 3ft. What is the ratio of the width Ms. Elasser's canoe to the width of Ms. Hartkopf's paddleboard?

**** Remember to convert to same units****