Name:		Unit 6: Similar Trian	gles					
Date:	Per:	Homework 1: Ratio & Proportion						
	** This is a 2-page document! **							
Directions: Write the ratio in simplest form.								
1. 28 elementary schools to 16	middle schools	2. 30 treadmills to	36 elliptical machines	;				
3. 18 buses to 66 cars		4. 180 red marble:	s to 145 blue marbles					
5. The hockey team played 82 regular-season games last year. If they won 44 games, what is the ratio of wins to losses?		6. In the word FLASHLIGHT what is the ratio of vowels to total letters?						
Directions: Use the given ratios to solve each problem.								
7. The ratio of the measures of complementary angles is 7: measure of the smaller ang	8. What is the		e measures of the thre 2:9:4. Find the measu	•				
 7. The ratio of the measures of the three angles in a triangle is 10:3:7. Find the measure of the largest angle. 10. The ratio of the measure to the base angle of 8:5. Find the measure 		ngle of an isosceles tr	iangle is					
11. The ratio of the measures of triangle is 21:8:14. If the per triangle is 215 feet, find the side.	erimeter of the	triangle is 4:7:5	e measures of the side 5. If the perimeter of t yards, find the length	he				

Directions:	Solve	each	pro	portion.
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13.
$$\frac{9}{16} = \frac{x}{12}$$

14.
$$\frac{x-3}{18} = \frac{12}{9}$$

15.
$$\frac{7}{11} = \frac{18}{x+1}$$

16.
$$\frac{3x-4}{14} = \frac{9}{10}$$

17.
$$\frac{17}{15} = \frac{10}{2x-2}$$

18.
$$\frac{x-16}{x+6} = \frac{3}{5}$$

19.
$$\frac{6}{19} = \frac{x - 12}{2x - 2}$$

20.
$$\frac{x-9}{15} = \frac{2x-9}{10}$$

21.
$$\frac{x-9}{3} = \frac{56}{x+4}$$

22.
$$\frac{7}{x+1} = \frac{2x-1}{36}$$