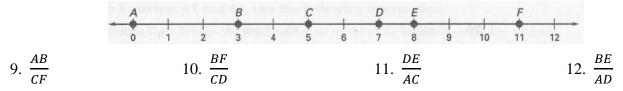
Geometry- Mrs. TilusName:Unit 6- Worksheet #1: Ratios, Proportions and the Geometric MeanSimplify the ratio.1. \$12:\$162. $\frac{32 in^2}{8 in^2}$ 3. $\frac{6 cm}{14 cm}$

4. $\frac{10 in}{2 ft}$ 5. 3 gallons: 10 quarts 6. 28 oz: 2 lb

Find the ratio of the **width to the length** of the rectangle. Leave as a simplified the ratio.

7.			8.	and the second	12-2
		w = 4cm			w = 6in
	l = 12cm				aines -
				l = 10in	22

Use the number line to find the ratio of the distances. Leave as a simplified the ratio.



13. The perimeter of a rectangle is 56 inches. The ratio of the length to the width is 6:1. Find the area of the rectangle.

14. The measures of the angles of a triangle are in the extended ratio given. Find the measure of the angles of the triangle.

7:14:15

15. The area of a rectangle is 525 cm^2 . The ratio of the length to the width is 7:3. Find the length and the width.

Solve the proportion.

16.
$$\frac{4}{5} = \frac{x}{15}$$
 17. $\frac{5}{8} = \frac{20}{y}$ 18. $\frac{z+2}{4} = \frac{27}{12}$

19.
$$\frac{3}{x} = \frac{1}{x-6}$$
 20. $\frac{3}{m+5} = \frac{2}{m+1}$ 21. $\frac{-1}{2k+3} = \frac{5}{3k-2}$

Find the geometric mean of the two numbers.

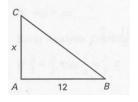
22. 2 and 8

23. 7 and 14

24. 8 and 16

The ratio of the two side lengths for the triangle is given. Solve for the variable.

25. AC: AB is 3: 4



26. AB: CB is 2:1

