

Name: _____ Date: _____ Section: _____

APPLIED Geometry 2017

7.1NOTES: Ratio & Proportions (Read Pgs 454-457)

Ratio-

Using Ratios:

How can ratios be written? Does order matter?

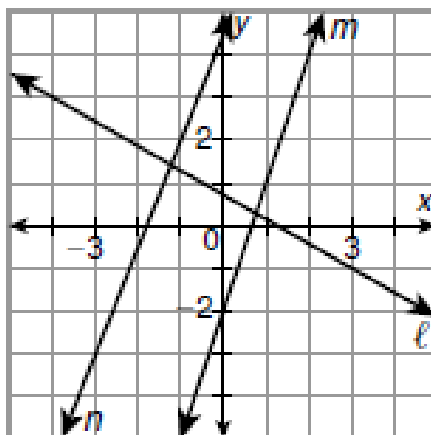
Slope is an example of a ratio because it compares _____ and _____

Write a ratio expressing the slope of each line.

1. Line l : _____

2. Line m : _____

3. Line n : _____



Can a ratio involve more than two numbers? Explain.

Proportions are Ratios that are set = to each other.

Cross Products Property:

Solving Proportions:

4. $\frac{x+3}{4} = \frac{9}{2}$

5. $\frac{16}{2x-1} = \frac{4}{3}$

6. $\frac{x+2}{6} = \frac{24}{x+2}$

7. $\frac{2y}{9} = \frac{8}{4y}$

Applied Geometry

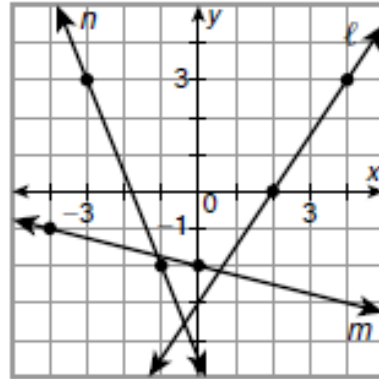
7.1 Classwork/Homework: Ratios and Proportions

Write a ratio expressing the slope of each line.

1. Line l : _____

2. Line m : _____

3. Line n : _____



Solve each of the following proportions using the cross products property.

4. The ratio of the interior angles of a pentagon is $2:2:3:4:6$. What is the measure of the largest angle?

5. The ratio of angle measures in a triangle is $5:12:19$. What is the measure of the largest angle?

Solve the following proportions. Show all work to receive full credit.

6. $\frac{9}{6} = \frac{x}{10}$

7. $\frac{6}{b-1} = \frac{9}{7}$

8. $\frac{7}{b+5} = \frac{10}{5}$

$$9. \quad \frac{4}{m-8} = \frac{8}{2}$$

$$10. \quad \frac{9}{k-7} = \frac{6}{k}$$

$$11. \quad \frac{4}{n+2} = \frac{7}{n}$$

$$12. \quad \frac{n-5}{n+8} = \frac{2}{7}$$

$$13. \quad \frac{5}{r+9} = \frac{r+3}{8}$$

$$14. \quad \frac{p-10}{9} = \frac{8}{p+11}$$