## Today is 11/9/17 Get out Note Packet & Calculator

Goal: Review for test

Agenda:

Go Over HW

**Brain Teaser** 

p. 29 & 30 Review Sheet

HW: finish p. 29 & 30

Test Tuesday 11/14 and Wednesday 11/15 Work on Review Sheet # 3: p. 29 & 30

When you finish: You MUST grab a Pizazz puzzle to work on!!

Use cross products to determine whether each pair of ratios form a proportion. Write yes or no.

1. 
$$\frac{2}{3}, \frac{33}{22}$$

$$2. \qquad \frac{4.2}{-5.6} = \frac{1.68}{2.24}$$

3. 
$$\frac{5}{2}, \frac{4}{1.6}$$

Solve each proportion. If necessary, round to the nearest thousandth.

4. 
$$\frac{4}{x} = \frac{2}{10}$$

$$5. \qquad \frac{6}{14} = \frac{7}{x - 3}$$

$$6(x-3) = 98$$
 $6x-18 = 98$ 
 $+18$ 
 $+18$ 

6. 
$$\frac{5}{3} = \frac{6}{x+2}$$

$$\frac{5x=8}{3}$$

Plot each point on a coordinate plane.

7. A(3,4)

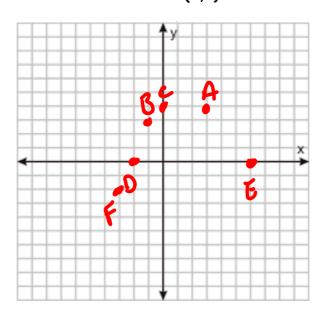
8. B(-1,3)

10. D(-2,0)

11. E(6,0)

9. *C*(0,4)

12. F(-3,-2)



Find the slope and the percent grade. If necessary, round the percent to the nearest integer.

- 16. The slope of a stairway determines how easy it is to climb the stairs.

  Assume that a stairway has 11 steps. The rise of each stair is 7 inches and the tread is 10 inches.
  - a. What is the slope of the stairway?
  - b. What is the total length and height of the stairway?  $\frac{17}{L}$
  - c. What is the slope of the entire stairway?
  - d. What is the percent grade of the stairway?
     (Round to the nearest integer.)

- 17. The wheelchair ramp into a local high school covers a horizontal distance of 26 feet and a vertical distance of 3 feet.
  - a. What is the slope of the ramp?
  - b. Any ramp built must have a percent grade of 10% or less. Is this ramp built within the legal standards?