

February 11, 2015 ^{5th} _{6th} Starter

1.

$$1\frac{1}{2} \text{ ft/sec} = \underline{18} \text{ in/sec}$$
$$\frac{3 \text{ ft}}{2 \text{ sec}} \cdot \frac{12 \text{ in}}{1 \text{ ft}} = \frac{36}{2} = 18 \text{ in/sec}$$

2.

$$2.5 \text{ gal/hr} = \underline{10} \text{ qts/hr}$$
$$\frac{2.5 \text{ gal}}{\text{hr}} \cdot \frac{4 \text{ qt}}{1 \text{ gal}}$$

3.

$$20 \text{ ft/sec} = \underline{400} \text{ yd/min}$$
$$\frac{20 \text{ ft}}{\text{Sec}} \cdot \frac{1 \text{ yd}}{3 \text{ ft}} \cdot \frac{60 \text{ sec}}{1 \text{ min}}$$

4.

$$60 \text{ mph} = \underline{88} \text{ ft/sec}$$
$$\frac{60 \text{ mi}}{\text{hr}} \cdot \frac{5280 \text{ ft}}{1 \text{ mi}} \cdot \frac{1 \text{ hr}}{3600 \text{ sec}}$$


Kleymissky

2/11 Slope - computing and graphing

60 sec Quick Write: What is SLOPE?

Pair-Share: the partner closest to the outside window or the front of the class goes first.

Ideas: hill
ski slope
up/down
shows how fast something is going
on a graph
mountain
changing
straight line on a graph
steep
diagonal



What can you tell about the slopes of these lines?

the steepness of a line

flattest



steepest



fastest

cheetah

gazelle/horse

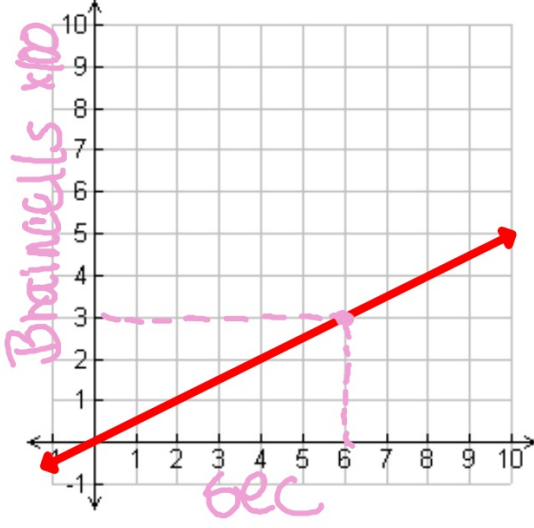
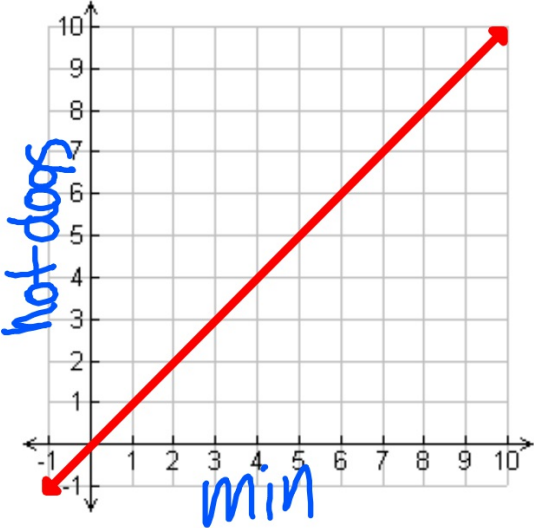
pig

tortoise

slowest



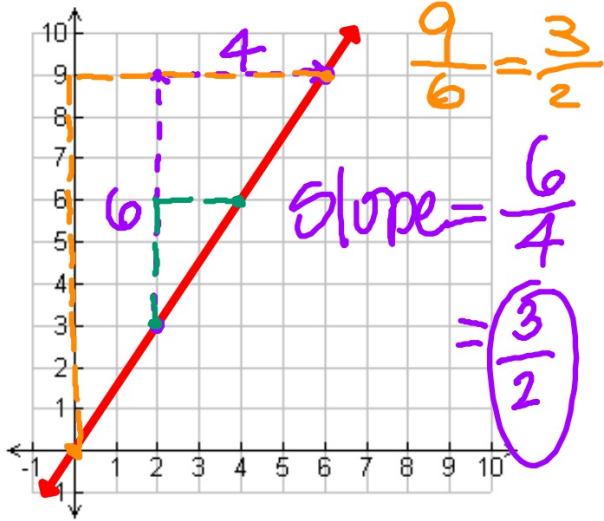
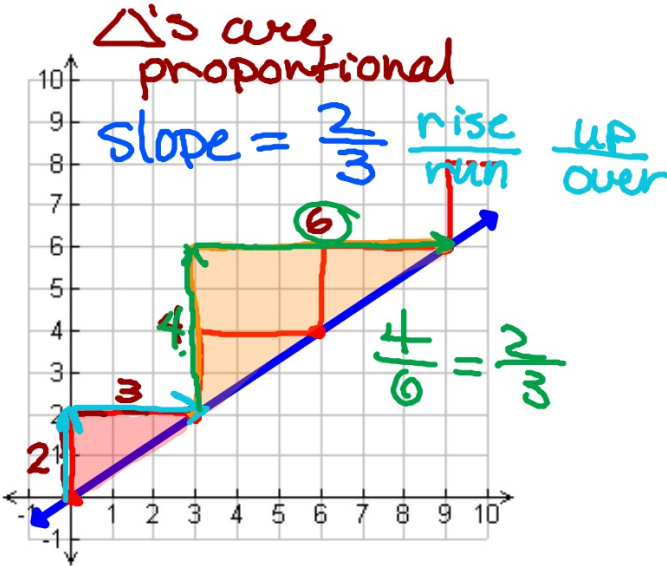
What about these slopes?



What rates could they represent?

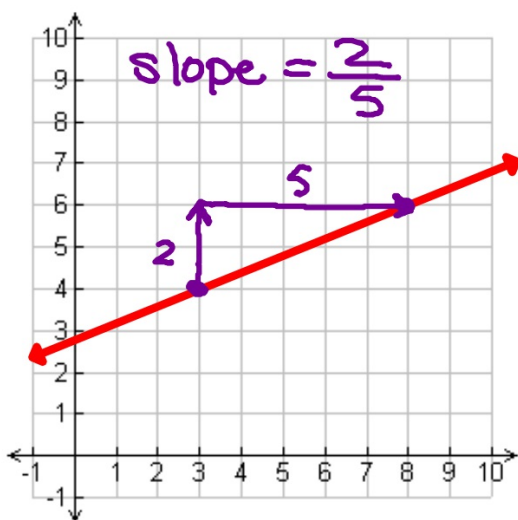
Slopes are represented by numbers...
 numbers that explain the rate.

NOT
 mixed #s



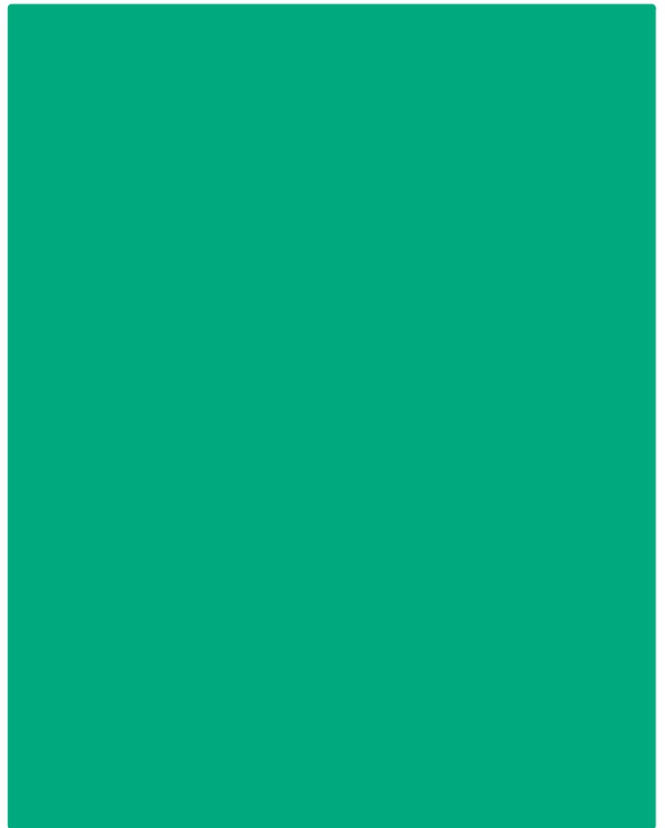
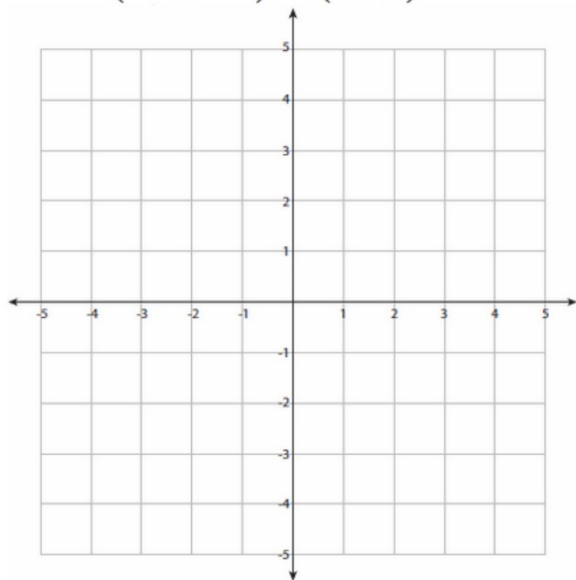
The line does not need to start at (0,0).
You can still compute the rate (slope) the same way.

Find the slopes of each line:



Graph these points, then find the slope of the line that goes through both of them.

$(-1, -2)$ $(3, 4)$



Homework

Blue WS 9

Due Friday