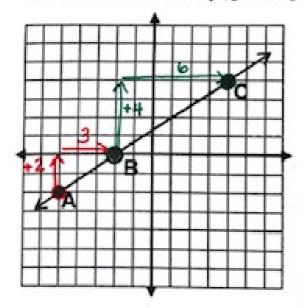
Math 8R Intro to SLOPE!	
Learning Target: I can find the slope of a line.	
Warm Up: Tell me everything you can about the diagram below-	
Straight Line: LINEAR Line is going up Positive SLOPE!	nge'
Guided Practice: Slope	_!
Slope is theSteepnessof a line It is also referred to asRateof Change	i
♦ We use the variable to represent slope	
on a stope frise vertical change change on a graph stope friend horizontal change change in	
Types of Slopes Down-hill	0
There are multiple ways to determine the slope, one way is to look at a graph:	Ŀ

Name

Date_

Exercise 1- Determine the slope, given the graph of the linear equation below-

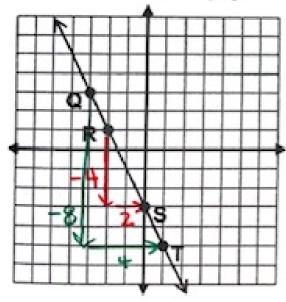


To get from A to B you move $\frac{2}{3}$ units up and $\frac{3}{3}$ units to the right. $slope = \frac{2}{3}$

To get from **B** to **C**, you move 4 slope = 6 units up and 6 units to the right. $4 \div 2 \div 2 \div 3$ What relationship do you see between the two slopes?

They are the same because it is LINEAR!

Exercise 2- Determine the slope, given the graph of the linear equation below-



To get from R to S, you move 4 units down and 2 units to the right.

To get from Q to T, you move 8 units down and 4 units to the right.

 $slope = \frac{8}{4} = \frac{2}{4}$

slope = 1 -2

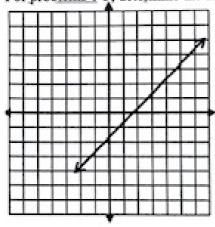
What relationship do you see between the two slopes?

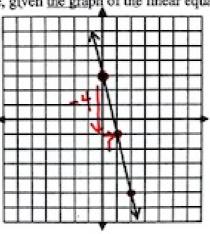
They are the same because they are on the same straight line.

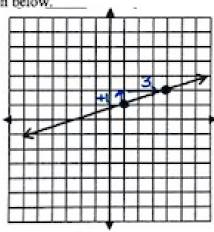
Rate of change - describes how one quantity changes in relation to another. (Another word for SLOPE)

Problem Set:

For problems 1-3, determine the slope, given the graph of the linear equation below.







Up/down:

Right: slope = Up/down: -4 Right:

slope =

Up/down: 1 Right: 3

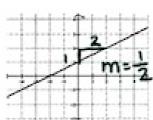
slope =

For problems 4-6, match the graph with the explanation

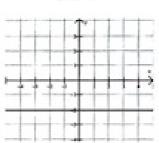
Line A



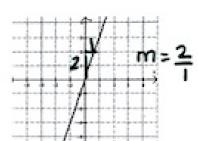
Line B



Line C.



Line D

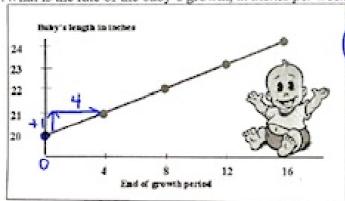


4. Which line(s) have a negative 5. Which line has a slope of zero? slope?

6. Which line has a slope of

positive

7. What is the rate of the baby's growth, in inches per week?



Challenge: At this same rate, what will the baby's length be in 24 weeks?