Unit Rates & Proportional Relationships

Today's Learning Targets:

5.12 - I know the unit rate of a proportional relationship is the slope of the graph.
5.13 - I can compare the unit rates of a proportional relationship from a graph, a table, or equation.

8.EE.5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.

Unit Rate: _____

_____

ex. 300 miles/ 10 gallons = /1 gal

Proportional Relationship: _____

_____

_____

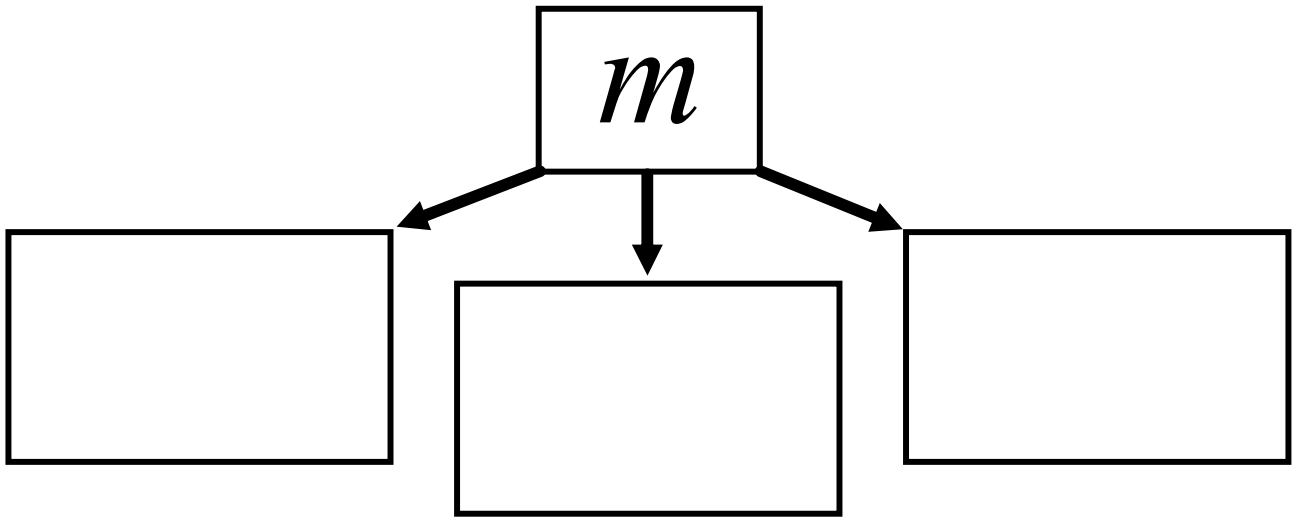
ex. 50 miles on 3 gallons
100 miles on 6 gallons
150 miles on 9 gallons
> = /1 gal

Proportional Relationship: Also called

- Direct Variation: $y = mx$

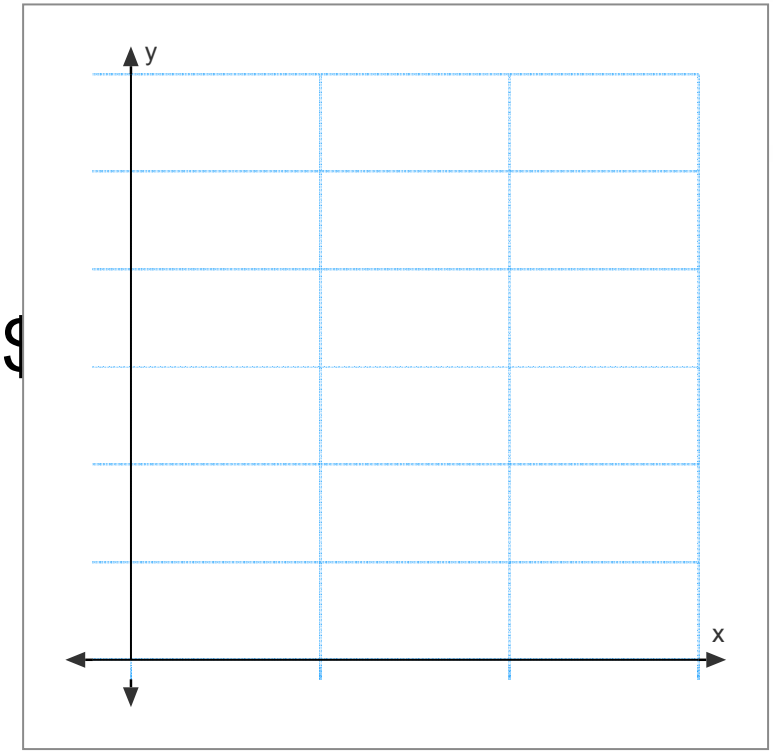
~ _____

~ _____



Five Gala apples cost $2.00.

# of Apples	0	5	10	15
Cost($)	0			



Apples

Find slope with rise/run

Write a direct variation.

Tess rides her bike at 12 mph.

# of hours riding	0	1	2	3
Distance traveled (miles)				

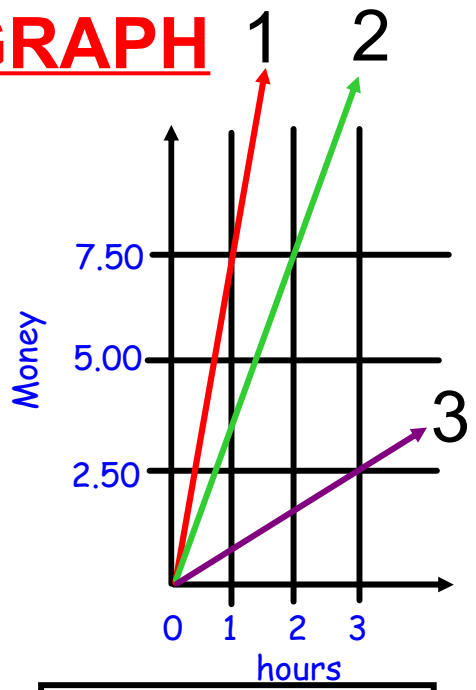
What is the unit rate?

Find the slope by using two of the ordered pairs.

What do you notice?

Proportional Relationships - Expressed 3 ways

GRAPH



Job 1:
Job 2:
Job 3:

EQUATION

$y = 5.50x$

y = money earned
x = hours worked

Equation Job?

TABLE

hrs	3	7	15
$	17.25	40.25	86.25

Table Job?