Lines: Lesson 9

Linear Word Problems: Notes

Name: _____

3 types of linear word problems:

constant _____ / _____

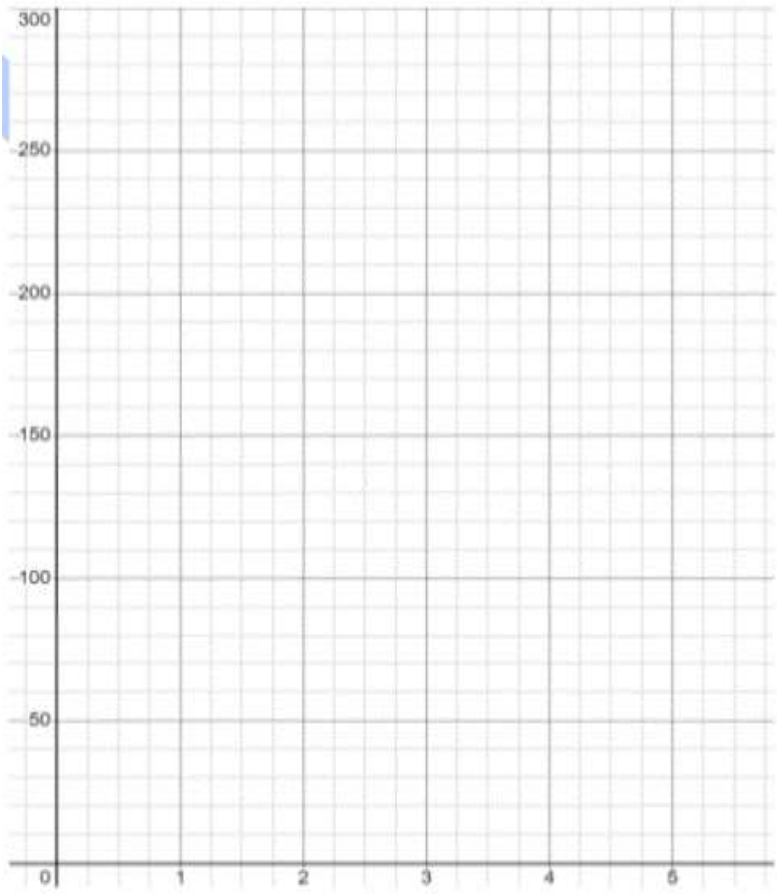
rate of _____

_____ _____

What is the equation that gives a worker's total bill if he charges $80 for the call plus $50 per hour?

initial rate + variable rate

_____ + _____



What is the rate of change in domestic coffee consumption between the beginning of 2015 and the beginning of 2020?

2 points: (_____ , _____) (_____ , _____)

_____ = _____ =

_____ million =

_____ bags of coffee per year

Domestic consumption of coffee in the United States from 2013/14 to 2019/2020

(in million 60-kilogram bags)

Characteristic	Consumption in million 60-kilogram bags
2019/2020	26.7
2018/2019	27.16
2017/2018	25.56
2016/2017	25.5
2015/2016	25.1
2014/2015	23.58
2013/2014	23.81

Direct Variation: line with a *y*-intercept of _____

$y =$ _____

How far you travel is a direct variation of the time that you drive. If I went 800 miles in 12 hours and 15 minutes...

What is *k*?

What does *k* represent?

$d = kt$

_____ $= k \cdot$ _____

$k =$ _____

How long would it take this vehicle to travel 250 miles?

$d = kt$

$d =$ _____$\cdot t$