Writing Equations WE3

y=mx+b

Writing Slope-Intercept Equations

Activity

Name	Key	
Date_		Period

Given one of the representations below, find the other two.

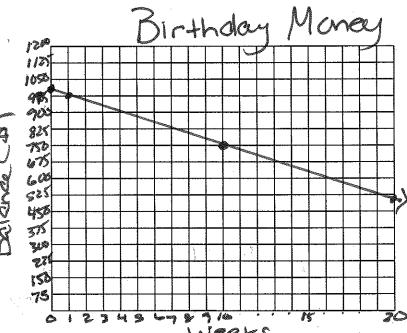
	Table	Graph	Equation
y int	1.		y=2x-3
y" "	2 × y 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		y=-x+1
	3. × y	12 X	m: Z b: 5 y = 2x + 5

Slope-Intercept Form:

, constant

- 1. Jason's grandparents gave him \$1,000 for his 16th birthday. He put the money in the bank and decided to withdraw \$25 each week.
 - a. Identify the independent variable.
 - b. Identify the dependent variable.
 (DUNACS) Balance in bank
 - c. Complete the table and graph for the above situation.

	4
X	y
0	1000
1	975
2	950
10	750
15	625
20	500
n /	00-25n



- d. Identify the slope. What does it represent in this situation?

 M = -25

 S25 each week

 Weeks

 is withdrawing
- e. Identify the y-intercept. What does it represent in this situation? Starts y-intercept (0,1000) with \$1,000 in the Bank
- f. Write the equation of the line.

y = -25 x + 1000

g. How much money will Jason have in the bank after 6 months? 6 months?

7=-52 (SA) +1000 [PHOO

- h. Does Jason have enough money to withdraw \$25 each week for a year? Explain. It is a second of the state of the second of the sec
- i. What are reasonable domain and range values for this situation?