

Notes:

Graphs of Constant of Proportionality

Created for you by Ms. Nhot-soubanh

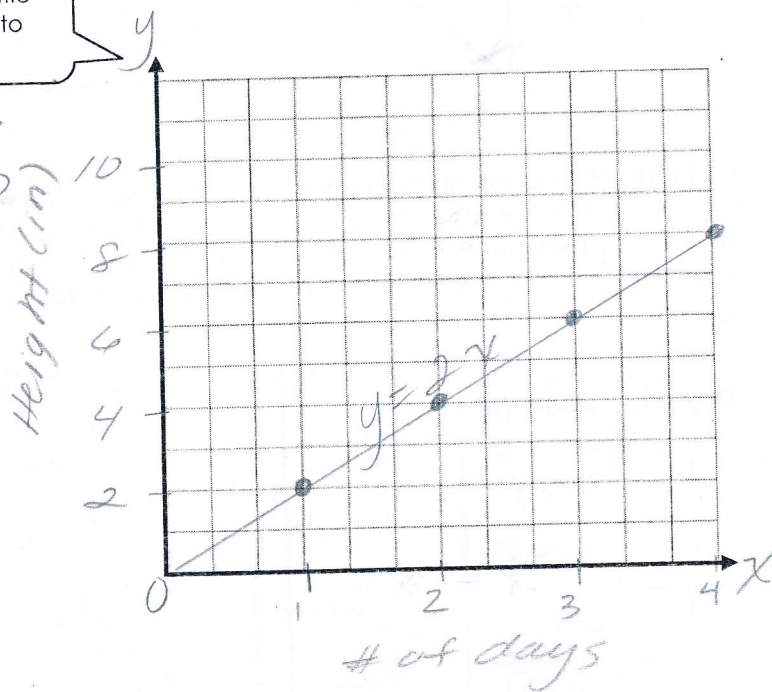
Today we will be using equations in a graph to show each proportional relationship.

1. Eirini is tracking the height of her tomato plant over 5 days. She determines that the equation $y = 2x$ represents the growth of her plant. Use this equation to graph the relationship between each day, x , and the height (inches) of the plant, y .

Day (x)	1	2	3	4	5
Height (y)	2	4	6	8	10

Don't forget to title your graph and to label your axes.

$y = 2x$
 $y = 2(1)$
 $y = 2$



Name: Key

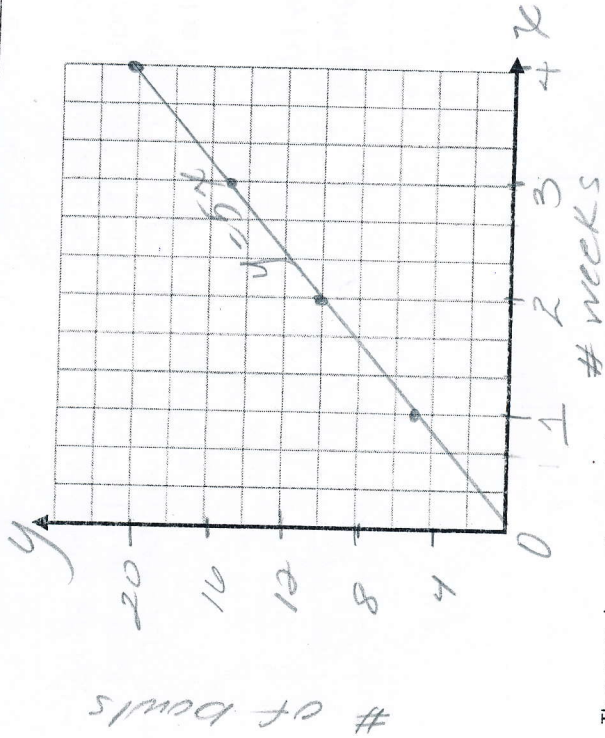
Math 7H - Dec. 11

Glue on page 58

HW: textbook pages 190 & 191 #s 25 - 27, and #s 32 - 37. Use pages 59 - 61 to show your work.

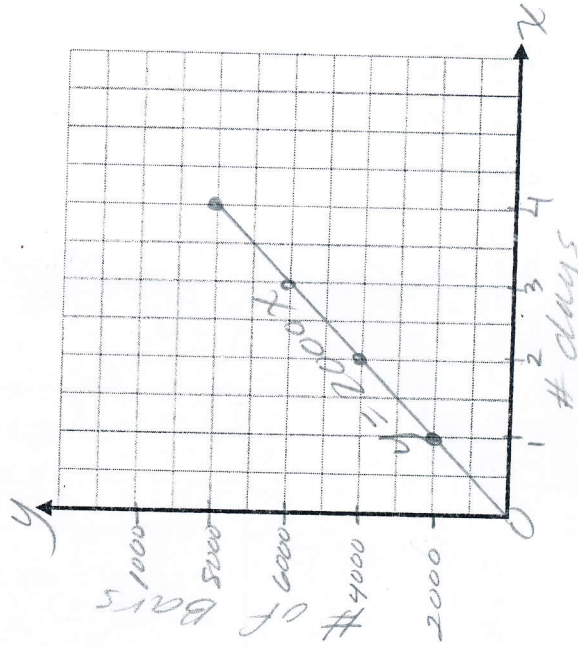
2. Jaiden records the number of bowls of cereal he eats each week for 4 weeks. His data is represented by the equation $y = 5x$. Use this equation to graph the relationship between each week, x , and the number of bowls, y .

Week (x)	1	2	3	4
Bowls (y)	5	10	15	20



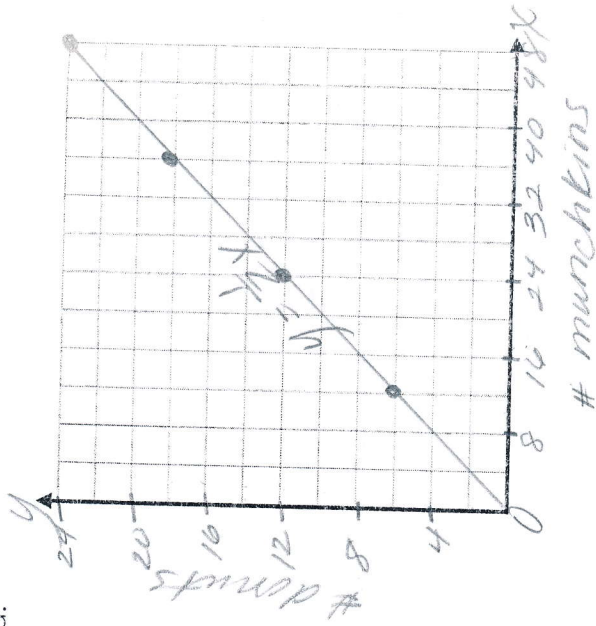
3. The number of candy bars produced at a chocolate factory is represented by the equation $y = 2,000x$. Where x represents the number of days, and y represents the number of candy bars. Use this equation to graph the number of candy bars produced over 4 days.

Day (x)	#Bars (y)
1	2000
2	4000
3	6000
4	8000



4. Grant is conducting a survey for Dunkin Donuts. He compares the number of munchkins sold (x), to the number of donuts sold (y). His data is represented by the equation $y = \frac{1}{2}x$. Graph this data for the first 4 dozen munchkins sold.

Munchkins Sold (x)	12	24	36	48
Donuts Sold (y)	6	12	18	24



5. A train travels from New York to Boston in 4 hours. The speed of the train is represented by the equation $y = 75x$. Graph this equation to show the relationship between the hours (x), and the miles traveled (y).

Hours (x)	Miles (y)
1	75
2	150
3	225
4	300

