

Writing Equations from a Table: Practice A

1. The table below shows the cost (y) to play (x) games at the amusement park.

<u>Number of Games, X</u>	6	9	12	15
<u>Cost in Dollars, Y</u>	4	5	6	7

a) What is the rate of change ($\frac{\Delta y}{\Delta x}$)? What does the rate of change mean in this context?

b) What is the y-intercept (the time when $x = \underline{\hspace{1cm}}$)?

c) What is the equation of the line represented by this table?

$$y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$$

2. The table to the right shows the amount of money Betty has in her bank account. Which equation on the left matches the table on the right?

a) $y = 8x$

b) $y = \frac{1}{8}x$

c) $y = 8x + 55$

d) $y = \frac{1}{8}x + 55$

<u>Months (X)</u>	0	1	2	3	4
<u>Money in Bank (Y)</u>	25	33	41	49	57

3. The table below shows the amount of money Sam will earn (y) by shoveling (x) number of driveways.

<u>Number of Driveways, X</u>	3	5	7	9
<u>Earnings in Dollars, Y</u>	21	35	49	63

d) What is the rate of change ($\frac{\Delta y}{\Delta x}$)? What does the rate of change mean in this context?

e) What is the y-intercept (the time when $x = \underline{\hspace{1cm}}$)?

f) What is the equation of the line represented by this table?

$$y = \underline{\hspace{1cm}}x + \underline{\hspace{1cm}}$$

4. The table to the right shows the number of pies Jimmy earns for selling pies. Which equation on the left matches the table on the right?

e) $y = 5x$

f) $y = \frac{1}{5}x$

g) $y = \frac{1}{11}x + 5$

h) $y = 5x + 11$

<u>Pies Sold (X)</u>	0	1	2	3	4
<u>Earnings (Y)</u>	11	16	21	26	31

5. In the problem above, what is the rate of change? What does the rate of change represent in the context of this problem?