Linear Relationships **Name:** KEY

Mary goes to the office supply store and bought 3 dozen binder clips for $2.88.

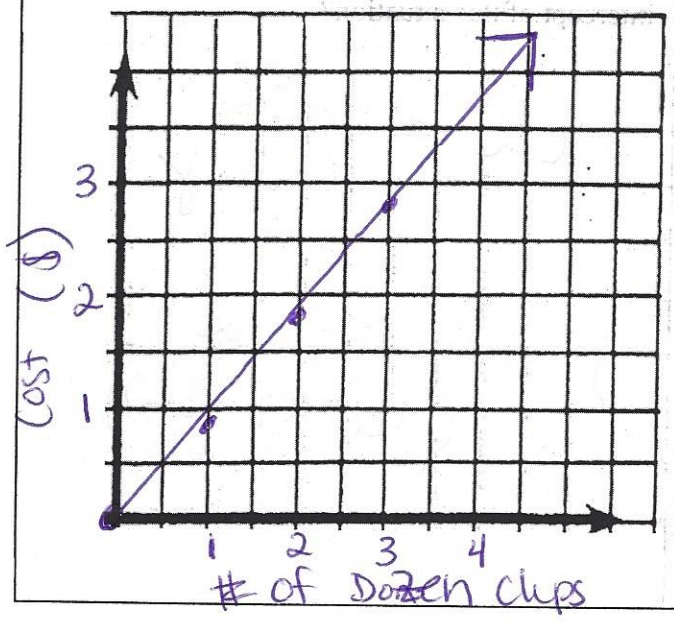
1. Create a table for this situation.

X (# of dozen)	Y (cost in $)
0	0
1	0.96
2	1.92
3	2.88

2. Write an equation for this situation.

$y = 0.96x$

3. Graph the data. Include labels for each axis.



4. What is the rate of change or slope and y-intercept of this situation?

$R.O.C. = \frac{\$0.96}{1 \text{ dozen}}$

y-intercept = 0

(buying 0 dozen clips costs $0)

Is this relationship proportional or non-proportional? Explain how you know.

Proportional because there is no y-intercept; no flat fee

Linear Relationships **Name:**

To use Wi-Fi at a hotel, there is a one-time connection fee of $12 and then a daily rate of $2.50 per day.

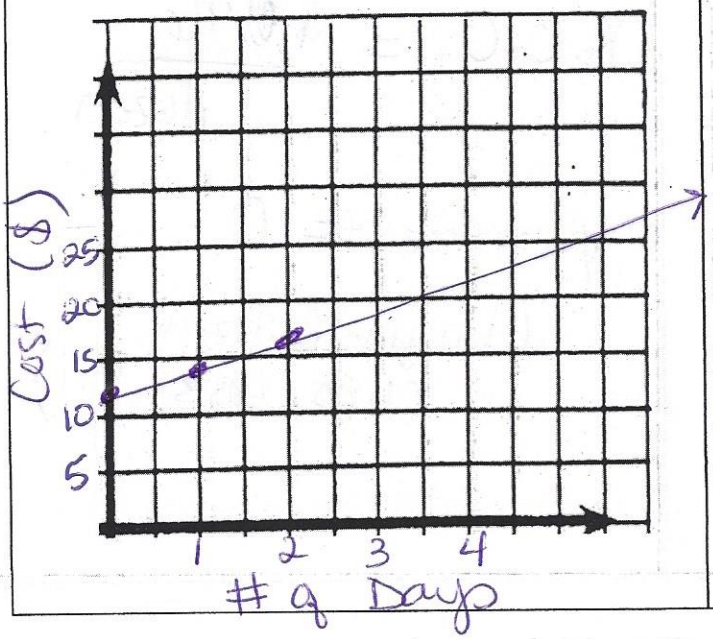
1. Create a table for this situation.

X (# of days)	y (cost $)
0	12
1	14.50
2	17

2. Write an equation for this situation.

$y = 2.50x + 12$

3. Graph the data. Include labels for each axis.



4. What is the rate of change or slope and y-intercept of this situation?

$R.O.C = \frac{\$2.50}{1 \text{ day}}$

y-intercept = 12 (fee of $12)

Is this relationship proportional or non-proportional? Explain how you know.

Non-proportional because there is a y-intercept; there is a flat fee