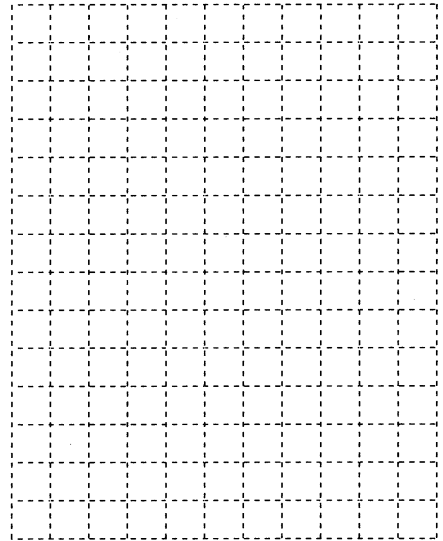Name: _____

1. Matt places an advertisement in the newspaper.
   There is a fixed cost of $100 to place the advertisement and a charge of $25 per day.

   a) Complete the table of values.

   b) Draw and properly label the graph.

Number of Days	Cost ($)
0	
1	
2	
3	
4	

   c) State the slope of the line **with units**. _____

   d) State the y-intercept **with units**. _____

   e) What type of variation is this? _____

2. Shannon earns $15/hour.

   a) State the slope **with units**. _____

   b) State the y–intercept **with units**. _____

   c) Write an equation to represent **E**, her earnings in dollars after **h**, hours. _____

   d) What type of variation is this? _____

   e) Use your equation to find how much she earns for 37 hours of work.

TURN OVER

3. The cost to take a taxi is determined according the formula, $C = 1.25d + 3.50$, where C is the cost in dollars and d is the distance driven in km.

   a) State the slope **with units**. _____

   b) What does the slope represent in words? _____

   c) State the y–intercept **with units**. _____

   d) What does the y-intercept represent in words?_____

   e) Sketch a graph using slope and y–intercept. *Label fully, as done in class.*
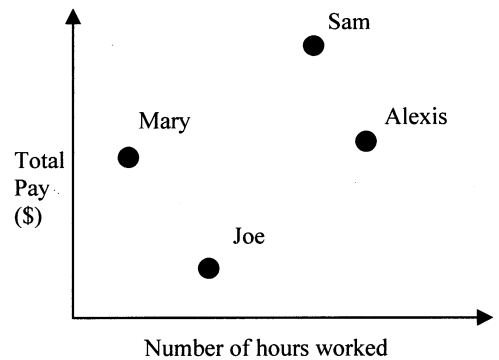
4. The graph on the right shows the number of hours worked and the total pay of four employees at a restaurant.

   Based on the graph,

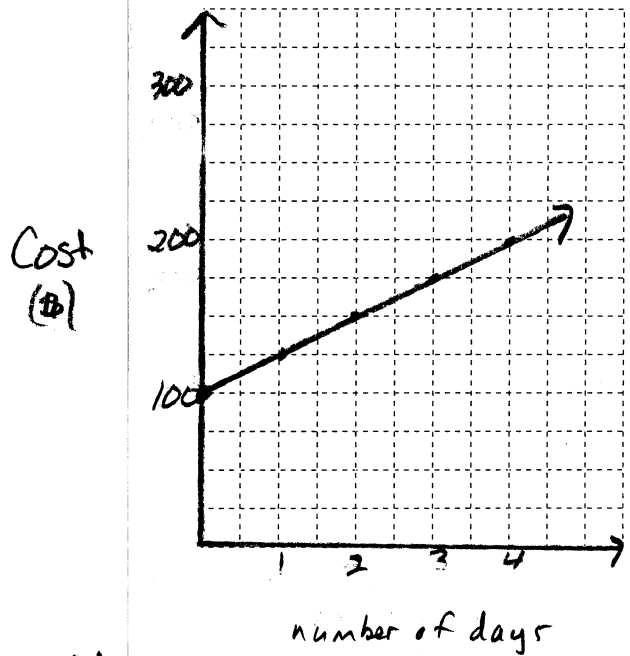   a) who had the lowest pay?_____

   b) who worked the most hours?_____

Total Pay ($)

Sam

Mary   Alexis

Joe

Number of hours worked

1. Matt places an advertisement in the newspaper.
    There is a fixed cost of $100 to place the advertisement and a charge of $25 per day.

    a) Complete the table of values.

    b) Draw and properly label the graph.

Number of Days	Cost ($)
0	100
1	125
2	150
3	175
4	200

Cost ($)

number of days

c) State the slope of the line **with units**. ___$25/day___

d) State the y-intercept **with units**. ___$100___

e) What type of variation is this? ___Partial___

2. Shannon earns $15/hour.

    a) State the slope **with units**. ___$15/hour___

    b) State the y–intercept **with units**. ___$0___

    c) Write an equation to represent **E**, her earnings in dollars after **h**, hours. ___$E = 15h$___

    d) What type of variation is this? ___Direct___

    e) Use your equation to find how much she earns for 37 hours of work.

$$E = 15h$$
$$= 15(37)$$
$$= 555$$

She earns $555

3. The cost to take a taxi is determined according the formula, $C = 1.25d + 3.50$, where C is the cost in dollars and d is the distance driven in km.

b) State the slope **with units**. $^\$1.25/Km$

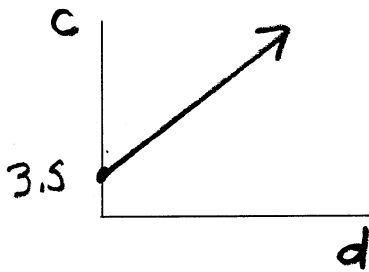c) What does the slope represent in words? The cost per km

d) State the y–intercept **with units**. $^\$3.50$

e) What does the y-intercept represent in words? Starting cost to take the taxi

f) Sketch a graph using slope and y–intercept. *Label fully, as done in class.*

4. The graph on the right shows the number of hours worked and the total pay of four employees at a restaurant. Based on the graph,

a) who had the lowest pay? Joe

b) who worked the most hours? Alexis