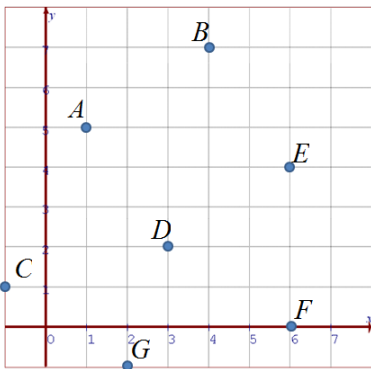


Name: _____

Date: _____

Math 8 HW Section 10.1 Linear Relations

1. Given the following grid, find the coordinates of each of the following points



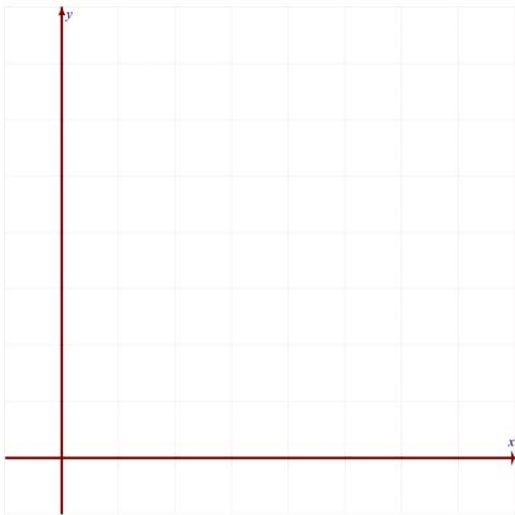
A(,) B(,)
 C(,) D(,)
 E(,) F(,)
 G(,)

2. Given each graph, fill in the table of values given:

<p>a)</p>	<p>b)</p>																								
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;"><i>Cost</i></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"><i># Baskets</i></td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">2</td> <td style="padding: 5px;">3</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">8</td> </tr> </tbody> </table>	<i>Cost</i>						<i># Baskets</i>	1	2	3	4	8	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;"><i># People</i></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> <th style="width: 20px;"></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;"><i># Cars</i></td> <td style="padding: 5px;">1</td> <td style="padding: 5px;">4</td> <td style="padding: 5px;">5</td> <td style="padding: 5px;">6</td> <td style="padding: 5px;">20</td> </tr> </tbody> </table>	<i># People</i>						<i># Cars</i>	1	4	5	6	20
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<p>How much does it cost to buy 10 basketballs?</p> <p>If you had \$100, how many basketballs can you buy?</p> <p>Write an equation for the relationship between the cost and the number of basketballs</p>	<p>How many people can each car take?</p> <p>How many cars will you need for 85 people?</p> <p>Write an equation for the number of people and the number of cars required:</p>																								

3. For the two graphs above, should we connect the dots? Explain why or why not.

4. Given each scenario, indicate whether it is a linear relationship or not. If not, explain why:
- i) Tim saves 3.25 each day and puts it in his piggy bank. The relationship between the number of days and how much he saves.
 - ii) The number of people in a school doubles every day for 12 straight weeks. The relationship between the number of people vs the number of weeks.
 - iii) The side length of a square and the perimeter of a square
 - iv) The side length of a cube and the volume of a cube
5. Jason owns a JappaDog stand and sells hotdogs at \$3.50 each. Make a TOV for the first twenty hotdogs that he sells. Use the graph to illustrate his revenue. Label the graph.



6. A taxi driver charge \$1.50 for the first minute and then \$.80 for each additional km he travels. Make a TOV for the first 10km and then draw a graph to illustrate the relationship.

