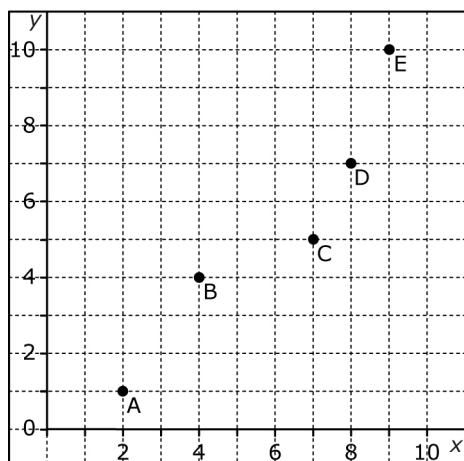


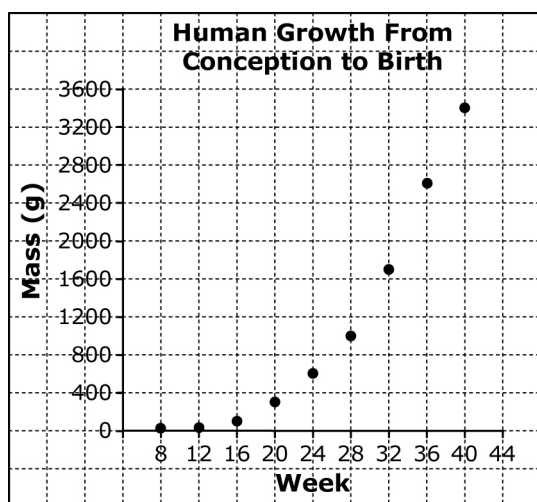
# Chapter 3 Warm-Up

## Section 3.1 Warm-Up

1. Write the coordinates of each point as an ordered pair.



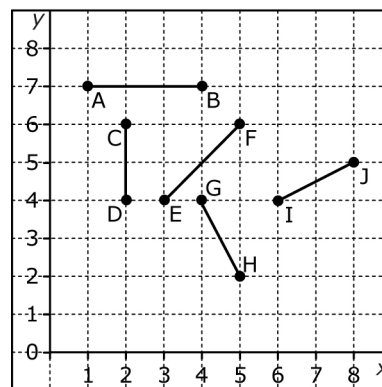
2. The graph shows the average mass of a human from conception to birth.



- a) Extrapolate to predict the baby's mass at 41 weeks.  
b) Interpolate to estimate the baby's mass at 30 weeks.

3. Calculate the slope of each line.

- a)  $\overline{AB}$   
b)  $\overline{CD}$   
c)  $\overline{EF}$   
d)  $\overline{GH}$   
e)  $\overline{IJ}$

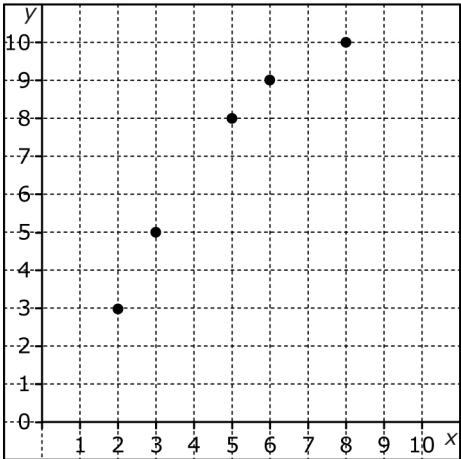


4. Describe each number pattern.  
a) 3, 6, 9, 12, 15, ...  
b) 80, 40, 20, 10, ...  
c) 1, 4, 9, 25, ...
5. Substitute the value of 2 for  $x$  into each equation to solve for the value of  $y$ .  
a)  $y = 3x + 7$   
b)  $y = 18 - 5x$   
c)  $y = 100 + 50x$



Section 3.2 Warm-Up

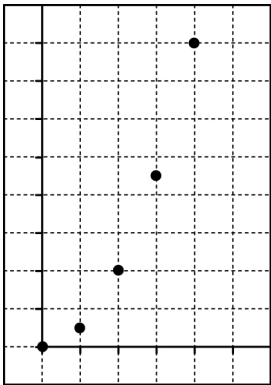
1. Does the scatter plot show a linear trend between the variables? If so, is the trend positive or negative?



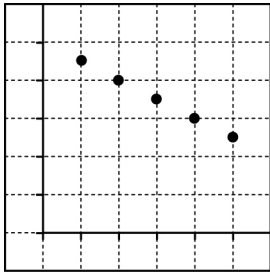
2. Create a scatter plot of the set of data. Then, state whether the scatter plot shows a linear trend between the variables. If so, is the trend positive or negative?

<b>x</b>	0	2	4	6	8	10
<b>y</b>	13	11	9	7	5	3

3. State whether the relationship shown in the scatter plot is a linear relationship or a non-linear relationship. Explain your reasoning.



4. State whether the relationship shown in the scatter plot is a linear relationship or a non-linear relationship. Explain your reasoning.



5. Calculate the difference between successive values in each column of the table of values. State whether the table represents a linear relationship or a non-linear relationship.

<b>x</b>	0	1	2	3
<b>y</b>	5	8	11	14



### Section 3.3 Warm-Up

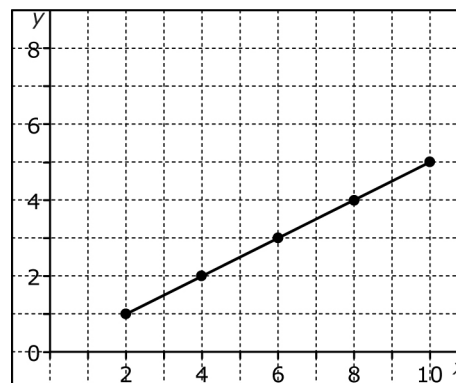
1. Does the table of values represent a direct variation relationship? How do you know?

$x$	$y$
0	2
1	5
2	8
3	11
4	14

2. The table of values represents a linear relationship with direct variation. Determine the missing values.

$x$	$y$
0	
1	11
2	
3	33
4	

3. Does the graph represent a direct variation relationship? How do you know?



4. a) Substitute the values  $x = 0, 1, 2,$  and  $3$  into the equation  $y = 3x$  and solve for  $y$ .  
b) Does the equation  $y = 3x$  model a relationship with direct variation? Explain why or why not.
5. Does the equation  $y = 4x + 3$  represent a relation with direct variation? Explain how you know.

