BLM 9-4

Chapter 9 Problems of the Week

1.	Study linear value points easier betwe table	equ s of y s on r to f een t	ation / in th a coo ind th he va	used ne tal rdina ne rel riable	to cr ble. P te gri ation es fro	eate lot th d. Is ship m the	the lese it	 2. Follow the steps below to make up a question like #1 for a classmate: Make up a linear equation. You may want to look in your student resource for some ideas. Create a table of values. Make a graph from the table of values.
	x	0	1	2	3	4	5	• Give the table and the graph to
	Y	1	4	7	10	13	16	your classmate. Can your classmate determine the equation that you used?
3.	Jesse the equated of the set of this line of the set of	quati inst o tha near	on <i>y</i> ructio It he v equa	= x - ons th will b tion o	- 6. P lat Je e able or an	rovid sse c e to g	e a an Iraph	4. Point (3, 5) is one of the coordinates created by the linear equation y = 4x + b. What is the value of b?

BLM 9-4 (continued)

5. Copy and complete the two tables of values before you answer the questions below.

x	y = x - 4
-2	
-1	
0	
1	
2	
3	
4	
5	

X	y=3x-6
-2	
-1	
0	
1	
2	
3	
4	

- a) For these two equations, as the value of x decreases beyond -2, will the value of y always decrease? Why or why not?
- b) For these two equations, as the value of x increases beyond 5, will the value of y always increase? Why or why not?
- **c)** What value for *x* results in equal values for *y* in both equations?
- d) Plot the two equations on a grid. What do you notice about the points for these equations? Explain.

- **6.** Find at least ten equivalent fractions for each of these
 - fractions: $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, and $\frac{1}{5}$.
 - a) Graph the equivalent fractions, where the numerators are along the x-axis and the denominators are along the y-axis. Use a different colour for each set of equivalent fractions.
 - **b)** Which fractions have common points?
 - c) Can you write an algebraic equation for each fraction?
 - d) How could this graph help you find an equivalent fraction in lowest terms?