Name:

Date:

Lesson 3.2.2 Homework

* **3-84.** Draw Figure 0 and Figure 4 for the pattern below.



* 1. Represent the number of tiles in each figure with:
		+ An x → y table.
		+ An algebraic rule.



* + - A graph.
	1. Without drawing Figure 5, predict where its point would lie on the graph.  Justify your prediction.

**3-85.** Examine the graph at right.

* 1. Use the graph to complete the table:

* 1. Use the graph to find the rule:
	y = \_\_\_\_

**3-86.** Find the area and circumference of a circle with a diameter of 15 cm.  If you need help remembering how to do this, read the Math Notes box in this lesson.

**3-87.** Simplify each of the following equations and solve for the variable.  Show all work and check your solution, if possible.

* 1. 3x − 7 + 9 − 2x = x + 2
	2. − 2m + 8 + m + 1 = 0
	3. 2 = x + 6 − 2x
	4. 0.5 p = p + 5

|  |  |  |
| --- | --- | --- |
| a.  http://textbooks.cpm.org/images/cc3/chap03/CC3_3-88a.png | b.  http://textbooks.cpm.org/images/cc3/chap03/CC3_3-88b.png | c.  http://textbooks.cpm.org/images/cc3/chap03/CC3_3-88c.png |

**3-88.** Mr. Wallis has done it again!  He has started to create more tables to help him figure out things like how many gallons of gas it takes to travel a certain number of miles or how many minutes it takes to walk a certain number of blocks.  Use proportional reasoning to complete his tables below.