Name: _____ Date: _____

Unit 5 Review

For each type of question, the achievement level is indicated. Showing work is an important strategy in communicating your knowledge and ideas so please be thorough.

Learning Goal 5.1	I can graph integral coordinates in the four quadrants.

Developing			
1. Predict the quadrant of the following coordinates.			
2. Graph the coordinates.			
a. $(5, 6)$	b. $(-3, -7)$	c. $(-9, 4)$	d. $(2, -8)$
e. $(2, 9)$	f. $(-9, -1)$	g. $(-8, 9)$	h. $(7, 3)$
i. $(8, 1)$	j. $(-8, -1)$	k. $(-8, 1)$	l. $(8, -1)$
m. $(5, 0)$	n. $(0, 6)$	o. $(-3, 0)$	p. $(0, -7)$
Proficient			
3. Predict the quadrant of the following coordinates.			
a. $(-293, 172)$	b. $(739, -324)$	c. $(1040, 8)$	d. $(-975, -832)$
e. $(0.354, 1.983)$	f. $\left(-\frac{1}{5}, \frac{6}{7}\right)$	g. $\left(0.921, -\frac{7}{10}\right)$	h. $(-5.243, -0.001)$

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Unit 5 Review

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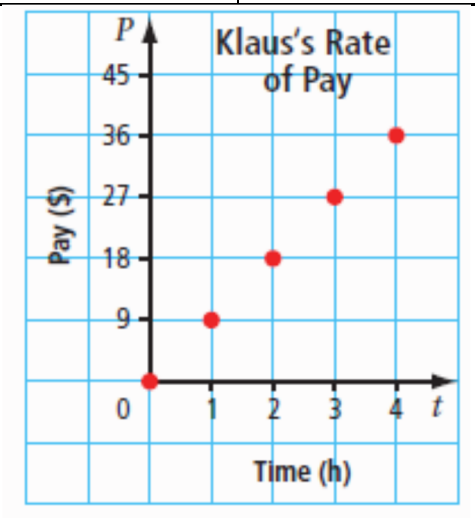
Learning Goal 5.2	I can express relations as expressions, in a table of values and on a graph.

Proficient

1. Make a table of values with $x = -5, -3, -1, 1, 3, 5$
2. Graph the ordered pairs from the table of values.

a. $y = 2x + 3$	b. $y = -2x - 4$	c. $y = x - 6$	d. $y = -x + 7$

3. Klaus works after school. The graph shows his rate of pay.



   a. Make a table of values from the graph.

   b. Does the graph represent a linear relation? Explain.

   c. Is it possible to have other points between the ones on this graph? Explain.

Extending

1. To rent a photo-booth for an event costs $\$100$ for the first hour and $\$20$ for each additional hour.
   a. Make a table of values showing the cost in relation to the number of hours rented for one to five hours.
   b. Draw a graph from the table of values.
   c. Write an expression for the cost in relation to the number of hours rented, h.
   d. What is the cost if you rent the booth for 12 hours?
2. To go on a field trip, there needs to be one adult for every 6 children.
   a. Make a table of values showing the number of adults for 6, 10, 14, 18, 22 and 26 children.
   b. Draw a graph from the table of values.
   c. If there are 8 adults present, how many children could there be?