NAME _____ DATE _____ PERIOD _____

Enrich

Equations with Two Variables

To solve equations containing two variables, find ordered pair solutions for the equation by selecting values for x and completing a table. Although any value can be selected for x, values usually selected include –2, –1, 0, 1, and 2.

For example, to solve the equation $y = 2x$ given below in Exercise 1, first select values for x, then complete a table. Ordered pair solutions for the equation $y = 2x$ include (–2, –4), (–1, –2), (0, 0), (1, 2), and (2, 4).

Match each equation with the point whose coordinates are a solution of the equation. Then, at the bottom of the page, write the letter of the point on the line directly above the number of the equation *each time it appears*. (The first one has been done as an example.) If you have matched the equations and solutions correctly, the letters below will reveal a message.

1. $y = 2x$	$A(-3, 8)$	$N(-1, 0)$
2. $y = x - 3$	$B(0, 2)$	$O(3, 0)$
3. $y = -x + 1$	$C(-2, 1)$	$P(1, 5)$
4. $y = 3x - 2$	$D(0, -5)$	$Q(0, 6)$
5. $y = -2x - 4$	$E(-1, -5)$	$R(1, 6)$
6. $y = x + (-2)$	$F(1, 3)$	$S(2, 1)$
7. $y = -4x - 1$	$G(0, -4)$	$T(-2, 3)$
8. $y = \frac{1}{2}x$	$H(-1, 3)$	$U(1, 2)$
9. $y = x + 3$	$I(2, 0)$	$V(-3, 5)$
10. $y = 7x + 7$	$J(0, 4)$	$W(0, -7)$
11. $y = -2x - 6$	$K(-3, 1)$	$X(-3, -3)$
12. $y = -x + 5$	$L(-4, 2)$	$Y(1, 8)$
13. $y = -5x + 8$	$M(-2, 2)$	$Z(0, -8)$
14. $y = -x$		

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$\overline{11}\ \overline{12}\ \overline{10}\ \overline{5}\ \overline{1}\ \overline{12}\ \overline{5}\ \overline{4}\qquad \overline{2}\ \overline{13}\qquad \overline{8}\ \overline{9}\ \overline{6}\ \overline{4}\ \overline{10}\ \overline{9}\ \overline{4}$