NAVIGATOR Activity Center
Identify the algebraic property.
Suggested Problems for Activity

This is a whole class activity to review the academic
vocabulary related to the algebraic properties.

Load the activity settings for AlgebraicProperties.act

To start from the beginning:

Load the background image AlgebraicProp.8xi

Set up the Activity Center so that students contribute
points. To prevent students from plotting the white points
on the screen, make sure students contribute zero
points.

Individualize the student cursors.

Make sure the window is friendly for students to move
from one area to another.

Call out or write down an example and give students a
prescribed amount of time to move to the word that best
describes the algebraic property of the example.

If you wish, have students write down the examples
under the correct label for their notes. A blank outline is
provided at the end of this document.
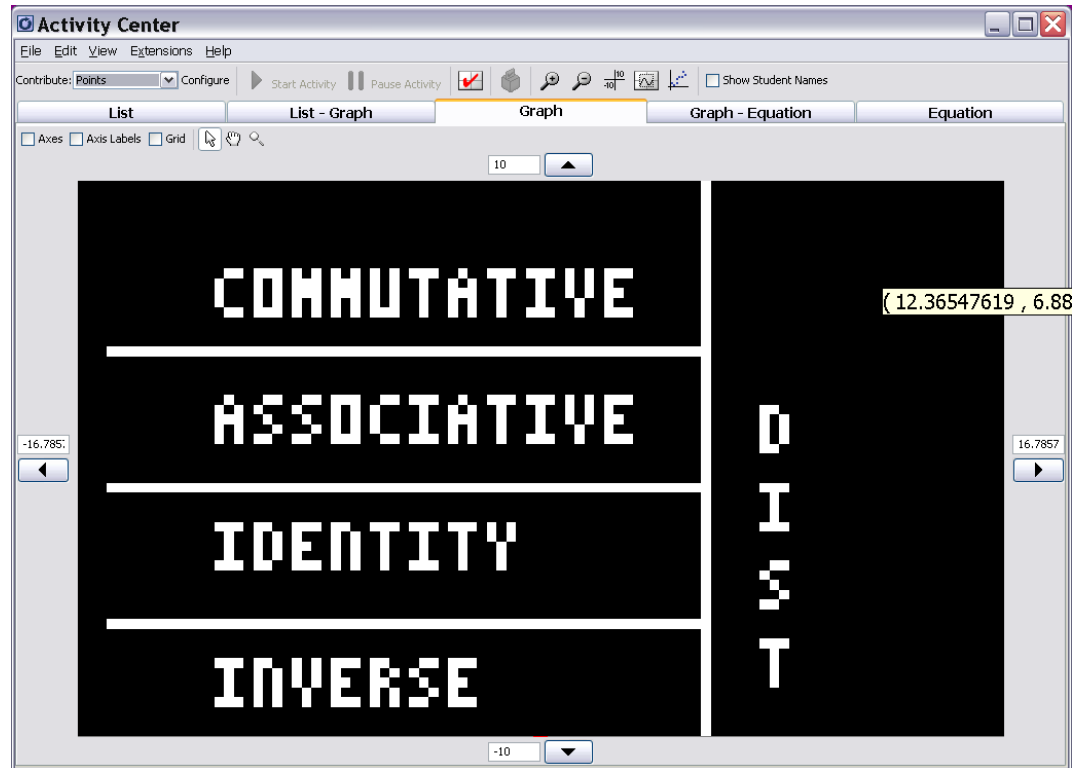
	Associative	Commutative	Identity	Inverse	Distributive
Additive	$(a+b)+c = a+(b+c)$	$a+b = b+a$	$a+0 = a$	$a+(-a) = 0$	$a(b+c) = ab+ac$
	$(5+7)+8 = 5+(7+8)$	$5+8 = 8+5$	$7+0 = 7$	$12+(-12) = 0$	$(x+y)z = xz+yz$
	$3x+(2x+x) = (3x+2x)+x$	$7+(x+y) = 7+(y+x)$	$2-0 = 2$	$\frac{2}{3}+\left(-\frac{2}{3}\right) = 0$	$2(x-3) = 2x-2(3)$
	$10+(x+3) = (10+x)+3$	$(2+3)-x = (3+2)-x$	$\frac{1}{2}+0 = \frac{1}{2}$	$5x+(-5x) = 0$	$4(x+y) = 4x+4y$
	$(2x+8y)+z = 2x+(8y+z)$	$11+(x+2) = (x+2)+11$	$8y+0 = 8y$	$y+(-y) = 0$	$(5+x)3 = 3(5)+3x$
Multiplicative	$(ab)c = a(bc)$	$xy = yx$	$a\cdot1 = a$	$a\cdot\frac{1}{a} = 1$	$w(x-y) = wx-wy$
	$(2x\cdot y)\cdot3 = 2x\cdot(y\cdot3)$	$5+(3x) = 5+(x\cdot3)$	$5x\cdot1 = 5X$	$8\left(\frac{1}{8}\right) = 1$	$2x(x+1) = 2x^2+2x$
	$4\cdot(2\cdot8) = (4\cdot2)\cdot8$	$5\cdot8 = 8\cdot5$	$3(1) = 3$	$\frac{1}{5}\cdot5 = 1$	$(3-x)4 = 12-4x$
	$\frac{1}{3}\cdot(9\cdot x) = \left(\frac{1}{3}\cdot9\right)\cdot x$	$\frac{1}{3}(12) = 12\left(\frac{1}{3}\right)$	$(abc)\cdot1 = abc$	$\frac{3x}{1}\cdot\frac{1}{3x} = 1$	$7(x+3y) = 7x+21y$
	$(5x\cdot3x)x = 5x(3x\cdot x)$	$3(x+10) = (x+10)3$	$(x+y)\cdot1 = (x+y)$	$-\frac{4}{1}\left(-\frac{1}{4}\right) = 1$	$(3x+4)y = 3xy+4y$

	Associative	Commutative	Identity	Inverse		Distributive
Additive						
Multiplicative						