








# ALGEBRA TILES PRINTABLE PACK

NAME: \_\_\_\_\_


DATE: \_\_\_\_\_

CLASS: \_\_\_\_\_

## ALGEBRA TILES REFERENCE

TILE	REPRESENTS	VALUE
	$x^2$ x squared	$+x^2$
	$x$ x	$+x$
	$+1$ positive one	$+1$
	$-1$ negative one	$-1$
EXAMPLES		
	$= x^2 + 2x + 3$	
	$= x - 4$	
	$= x^2 + x + 2 - 3$ $= x^2 + x - 1$	

## CLASSROOM VOCABULARY

<b>TERM</b> 	A number, variable, or product of a number and variables.
<b>COEFFICIENT</b> $3x$	The number in front of a variable.
<b>VARIABLE</b> $x$	A letter that represents an unknown number.
<b>CONSTANT</b> $5$	A term with no variable.
<b>EQUIVALENT EXPRESSIONS</b> $x + 2 = 2 + x$	Different expressions that have the same value.
<b>LIKE TERMS</b> $3x$ and $-7x$	Terms with the same variable and power. Their coefficients can be combined.
<b>OPPOSITES</b> $x$ and $-x$	Terms that have the same variable part but opposite signs.

## DATA RECORDING

Build each expression with tiles and record.

EXPRESSION	POSITIVE TILES ( $x^2$ , $x$ , $+1$ )	NEGATIVE TILES ( $-x$ , $-1$ )	SIMPLIFIED EXPRESSION
$x^2 + 2x + 1$			
$x^2 - x - 3$			
$2x + 5$			
$-x + 1$			
$x^2 - 4$			

## GUIDED PRACTICE

Build each expression with algebra tiles.

1 $x^2 + x + 2$	2 $x^2 - 2x + 1$
3 $2x - 3$	4 $x - 5$
5 $x^2 + 3x - 2$	6 $-x + 4$

TILE CUT-OUTS

