

COUNTDOWN CHALLENGE

The Language of Algebra

	Picture	Algebraic Expression
	□ □	$2x + 4$
If □ □ ⊕ ⊕ ⊕ = $2x + 3$, match the pictures on the right with the correct algebraic expressions.	⊕ ⊕ ⊕	3
	□ ⊕	$3x + 2$
	□ □ ⊕ ⊕ ⊕ ⊕	$2x$
	□ □ □ ⊕ ⊕	$1x + 1$

Complete the table below

English Form	Picture Form	Algebra Form
<i>one</i>		
<i>a number</i>		
<i>doubling a number</i>		$2x$
<i>one more than a number</i>	□ ⊕	
<i>triple a number plus three</i>		

Algebra can help you perform great magic tricks. Study the trick below. No matter what number is chosen, the answer will always be the same.

Direction	Picture	Algebra
<i>Choose a number.</i>	□	x
<i>Add four.</i>	□ ⊕ ⊕ ⊕ ⊕	$x + 4$
<i>Subtract one.</i>	□ ⊕ ⊕ ⊕ ⊖	$x + 4 - 1$
<i>Subtract the original number.</i>	⊖ ⊕ ⊕ ⊕ ⊖	$x + 4 - 1 - x$

The answer will always be _____