

Patterns, Functions, and Algebra

Key Words	Symbol	English Translation	Algebraic Translation
Sum, add, increase, more than, plus, increased by, greater, exceeded by, and	add +	f increased by 10 the sum of x and 9	$f+10$ $x+9$
Difference, subtract, take away, minus, decrease, fewer, less, less than, decreased by, diminished by	-	4 less than y 32 fewer CD's than Johns	$y-4$ $J-32$
Multiply, of, product, times	* or •	the product of 4 and t One-half of the watermelon weighs 3 pounds	$4t = 4 \cdot t = 4t$ $\frac{w}{2} = 3$ $\frac{1}{2} \cdot w = 3$
Divide, quotient, into, for per, divided by	÷ or /	500 divided into x parts Sarah cut a x-inch board into 6 pieces	$\frac{500}{x}$ $\frac{x}{6}$

Sep 8 - 4:40 PM

$$\frac{w}{4} = 12$$

$$\frac{1}{4} \cdot w = 12$$

$$\frac{1w}{3} = 10$$

$$\frac{1}{3} \cdot w$$

Sep 9-2:19 PM

<p>Equals, is equivalent to, is the result of, is</p>	<p>=</p>	<p>Twice a number(n) plus 4 is 14</p> <p>Twice Sam's age(S) is equivalent to Tom's age(T)</p>	<p>$2n + 4 = 14$</p> <p>$2S = T$</p>
<p>Is not equal to, is not the same as, cannot equal, does not equal</p>	<p>≠</p>	<p>Today(d) is not the third day of the month</p> <p>The answer(x) cannot equal 0</p>	<p>$d \neq 3$</p> <p>$x \neq 0$</p>

Sep 8 - 4:41 PM