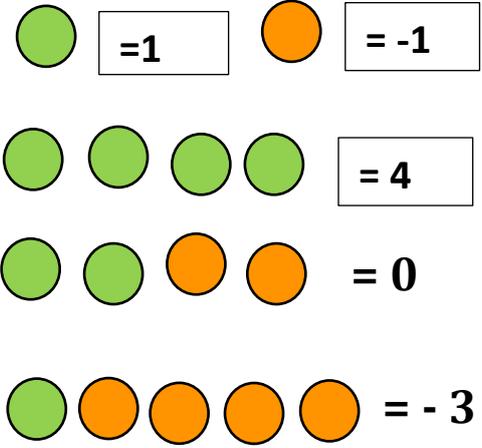


Core Knowledge

Topic/Skill	Definition/Tips	Example
<p>1. Directed number</p>	<p>A number that can be negative as well as positive. There is always a symbol in front of a negative number. There may or not be a symbol in front of a positive number.</p> <p>Negative number -7</p> <p>Positive number $+7$ or 7</p>	
<p>2. Product</p>	<p>Two or more numbers multiplied together</p>	<p>The product of 3 and 4 is $3 \times 4 = 12$</p>
<p>3. +/-</p>	<p>Use both the negative and positive value</p>	<p>$2x + 3$ if $x = +/- 5$</p> <p>2 multiplied by $+5 + 3$ and 2 multiplied by $= 5 + 3$</p>
<p>4. Rules of addition and subtraction</p>	<p>$++ = +$ $-- = +$ $+- = -$ $-+ = -$</p>	<p>$4++3 = 7$ $4--3 = 7$ $4+-3 = +1$ $4-+3 = +1$</p>
<p>5. Rules of multiplication and division</p>	<p>$+x += +$ $-x -= +$ $-x += -$ $+x -= -$</p>	<p>$+4x + 3 = +12$ $-4x - 3 = +12$ $-4x + 3 = -12$ $+4x - 3 = -12$</p>
<p>6. $\sqrt{16}$ This is a square root</p>	<p>Every number has a positive and negative square root.</p>	<p>$4 \times 4 = 16$ therefore 16 is a square number. 16 also has another square root, this is because: $-4 \times -4 = 16$</p>

Core Knowledge

6. Substitution	When you substitute, you replace a letter with a numerical value	a = 5 and b = - 2 Find: 1) $ab = 5 \times -2 = -10$ 2) $a-b = 5 - -2 = 5 + 2 = 7$
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