

Who Has...?

The student will represent verbal quantitative situations algebraically and evaluate these expressions for given replacement values of the variables.

MATERIALS: deck of *Who Has...?* cards

Groups: small group to whole class

Game:

Pass out the entire deck to students. Any student may begin by reading his or her card aloud. The student with the answer responds by reading his/her card. Play continues until all cards are used. Timed class competition is an option.

Who Has...? cards

I have $5 + 2x$. Who has a number 3 less than my number?	I have $10x$. Who has my number decreased by $9x$?
I have $2 + 2x$. Who has a number twice as large as my number?	I have x. Who has the square of my number?
I have $4x + 4$. Who has a number 4 less than my number?	I have x^2. Who has the perimeter of an equilateral triangle of side $2x$?

<p>I have $4x$.</p> <p>Who has the square of my number?</p>	<p>I have $6x$.</p> <p>Who has 6 more than my number?</p>
<p>I have $16x^2$.</p> <p>Who has my number increased by $9x^2$?</p>	<p>I have $6x + 6$.</p> <p>Who has $\frac{1}{6}$ of my number?</p>
<p>I have $25x^2$.</p> <p>Who has the square root of my number?</p>	<p>I have $x + 1$.</p> <p>Who has the square of my number?</p>
<p>I have $5x$.</p> <p>Who has twice my number?</p>	<p>I have $9x^2$.</p> <p>Who has a square root of my number?</p>
<p>I have $x^2 + 2x + 1$.</p> <p>Who has twice Mary's age three years ago if she is x years old now?</p>	<p>I have $3x$.</p> <p>If my number is the length of the side of a square, who has its perimeter?</p>
<p>I have $2x - 6$.</p> <p>Who has 6 more than my number?</p>	<p>I have $12x$.</p> <p>Who has my value if $x = \frac{1}{4}$?</p>

<p>I have $2x$.</p> <p>Who has the square of my number?</p>	<p>I have 3.</p> <p>Who has $3x$ minus my number?</p>
<p>I have $4x^2$.</p> <p>Who has my number decreased by 1?</p>	<p>I have $3x - 3$.</p> <p>If I am the perimeter of an equilateral triangle, who has the length of each side?</p>
<p>I have $4x^2 - 1$.</p> <p>Who has a factor of my number?</p>	<p>I have $x - 1$.</p> <p>If my number is squared, who has my middle term?</p>
<p>I have $2x + 1$.</p> <p>Who has my number if $x = 4$?</p>	<p>I have 25.</p> <p>Who has a number that is $4x^2$ less than my number?</p>
<p>I have 9.</p> <p>Who has the product of my number and the square of x?</p>	<p>I have $25 - 4x^2$.</p> <p>Who has a factor of my number?</p>
<p>I have $-2x$.</p> <p>If $x = 3$, who has the square of my number?</p>	<p>I have 36.</p> <p>Who has the largest perfect square less than my number?</p>