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Maths File

Dice Substitution

level **2**



Roll two 6-faced dice.
Work out the value of the expression with your number.
This is your score.

As a pair
The largest score wins the game and starts the next game.

If you are working alone
Explore the difference between the larger and smaller scores for each expression.
Use dice with a different numbers of faces and continue the investigation.

Game 1					
	First Dice, x	Value of expression	Second Dice, x	Value of expression	Difference in values
x^2					
$x^2 + 2$					
$x(x - 1)$					
$x^2 \div 2$					
$(x + 5)(x + 1)$					
$(3x + 2)(x + 1)$					
$x^2 - 1$					
$(2x - 1)(x - 1)$					
$(4x - 3)(x + 1)$					
$(2x + 3)(3x + 2)$					
$x(x + 10)$					
$(x + 5)(x + 1)(x + 6)$					

BBC Education **Maths File** <http://www.bbc.co.uk/education/mathsfile>

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Game 2					
	First Dice, x	Value of expression	Second Dice, x	Value of expression	Difference in values
x^2					
$x^2 + 2$					
$x(x - 1)$					
$x^2 + 2$					
$(x + 5)(x + 1)$					
$(3x + 2)(x + 1)$					
$x^2 - 1$					
$(2x - 1)(x - 1)$					
$(4x - 3)(x + 1)$					
$(2x + 3)(3x + 2)$					
$x(x + 10)$					
$(x + 5)(x + 1)(x + 6)$					

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