

Content Standard	<p>MAFS.6.EE Expressions and Equations</p> <p>MAFS.6.EE.1 Apply and extend previous understandings of arithmetic to algebraic expressions.</p> <p>MAFS.6.EE.1.2 Write, read, and evaluate expressions in which letters stand for numbers.</p> <p>MAFS.6.EE.1.2a Write expressions that record operations with numbers and with letters standing for numbers. <i>For example, express the calculation “Subtract y from 5” as $5 - y$.</i></p> <p>MAFS.6.EE.1.2b Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity. <i>For example, describe the expression $2(8 + 7)$ as a product of two factors; view $(8 + 7)$ as both a single entity and a sum of two terms.</i></p> <p>MAFS.6.EE.1.2c Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole-number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations). <i>For example, use the formulas $V = s^3$ and $A = 6s^2$ to find the volume and surface area of a cube with sides of length $s = \frac{1}{2}$.</i></p>	
Assessment Limit	Numbers in items must be rational numbers.	
Calculator	No	
Item Types	Equation Editor Multiple Choice Multiselect	
Context	Allowable	
Sample Item	Item Type	
Jeffrey is 10 years old. He has a brother named Max. Max is 5 years older than twice Jeffrey’s age. Write an expression that represents the relationship of Max’s age in terms of Jeffrey’s age, n .	Equation Editor	
What is the surface area, in centimeters, of a cube with a side length, s , of $\frac{1}{3}$ cm?	Equation Editor	
Which expression has a coefficient of 2? <p>A. 3</p> <p>B. $2x^5$</p> <p>C. $4x^2$</p> <p>D. $\frac{3x}{2}$</p>	Multiple Choice	

Sample Item	Item Type
<p>Select all the statements that describe the expression $5 + 2x$.</p> <ul style="list-style-type: none"><input type="checkbox"/> The expression represents 5 plus 2 plus x.<input type="checkbox"/> The expression represents 5 plus 2 times x.<input type="checkbox"/> The expression represents 5 plus x plus x.<input type="checkbox"/> The expression represents 5 plus x times x.<input type="checkbox"/> The expression represents the sum of 5 and $2x$.<input type="checkbox"/> The expression represents the product of 5 and $2x$.	Multiselect