Content Standard	MAFS.8.EE Expressions and Equations	
	MAFS.8.EE.1 Work with radicals and integer exponents.	
MAFS.8.EE.1.1 Know and apply the properties of integer exponents to g		
	equivalent numerical expressions. For example, $3^2 \cdot 3^{-5} = 3$	$3^{-3} = \frac{1}{3^2} = \frac{1}{27}.$
Assessment Limits	Exponents must be integers. Bases must be whole numbers. Variables may not be used.	
Calculator	No	
Item Types	Equation Editor GRID Matching Item Multiple Choice Multiselect	
Context	No context	
Sample Item		Item Type
Which expression is A. $3^1 \cdot 3^{-10}$ B. $3^{-1} \cdot 3^{10}$ C. $3^{-4} \cdot 3^7$ D. $3^4 \cdot 3^{-7}$		Multiple Choice
Which expression is A. 4 ⁷ B. 4 ⁸ C. 4 ¹⁰ D. 4 ¹²	equivalent to $(4^3)^2 \cdot 4^2$?	Multiple Choice
Which expression is equivalent to $5^4 \cdot (5^{-3})^2$? A. 5^1		Multiple Choice
B. 5 ²		
C. $\left(\frac{1}{5}\right)^1$ D. $\left(\frac{1}{5}\right)^2$		
D. $\left(\frac{1}{5}\right)^2$		

Grade 8 Mathematics Item Specifications Florida Standards Assessments

Sample Item	Item Type
An equation is shown.	Equation Editor
$3^m \cdot 3^n = 3^{-2}$	
What are possible values for m and n ?	
m = $n =$	
1 2 3 4 5 6 7 8 9 0	