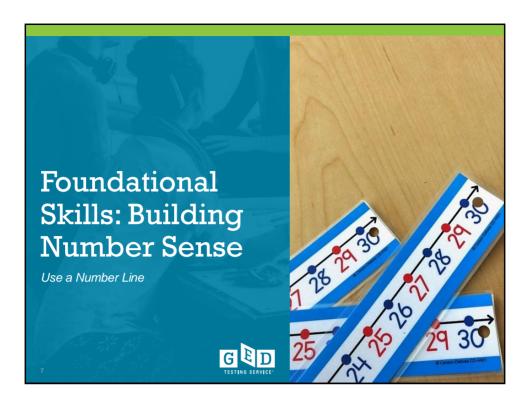
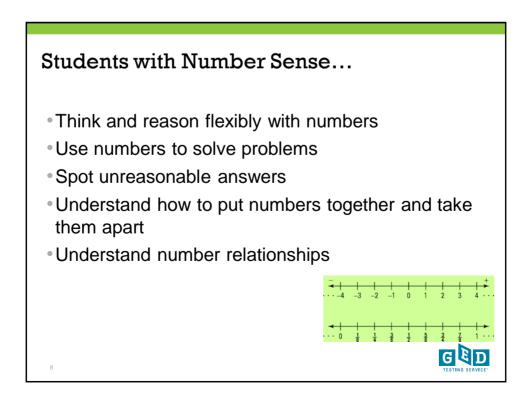


Concrete	Representational	Abstract
Students manipulate hands- on, concrete materials	Students draw and observe diagrams, or watch the teacher touching and moving hands-on materials	Students use numbers and mathematical symbols
	3 3 3 3 3 3 3 3 3 3 3 3 3 3	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

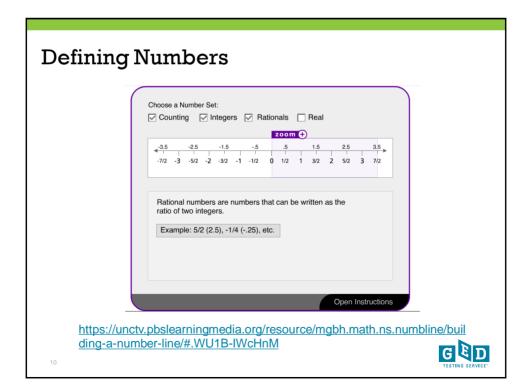




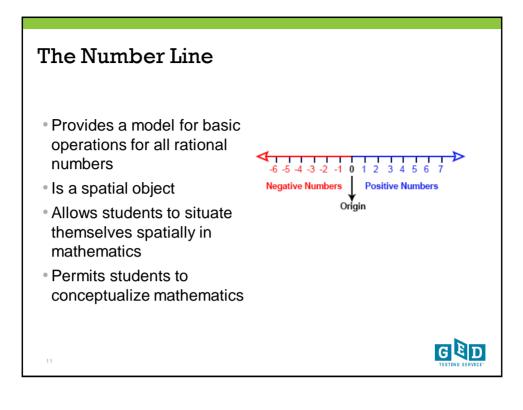
ut they are just numbers	
Type of Number	Quick Description
Counting Numbers	{1, 2, 3,}
Whole Numbers	{0, 1, 2, 3,}
Integers	{, -3, -2, -1, 0, 1, 2, 3,}
Rational Numbers	p/q – p and q are integers, q is not zero
Irrational Numbers	$\pi$ – 3.14159265358979323856 cannot be written as a simple fraction $\sqrt{3}$ , $\sqrt{99}$

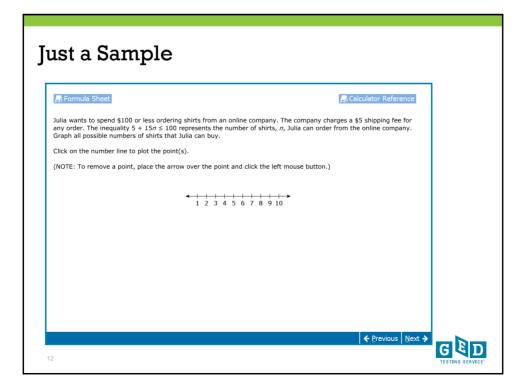
Rational and Irrational

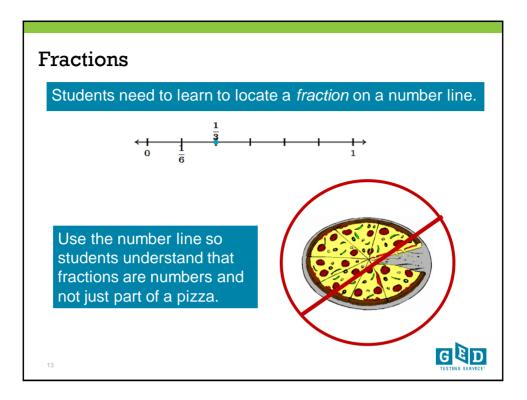
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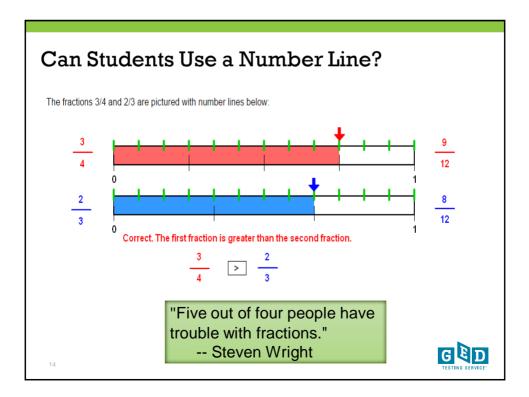


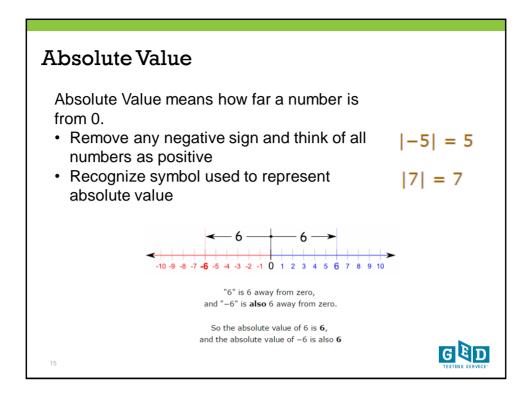
**Real Numbers** 

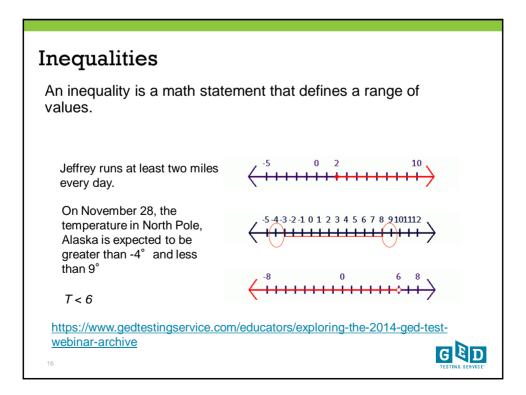


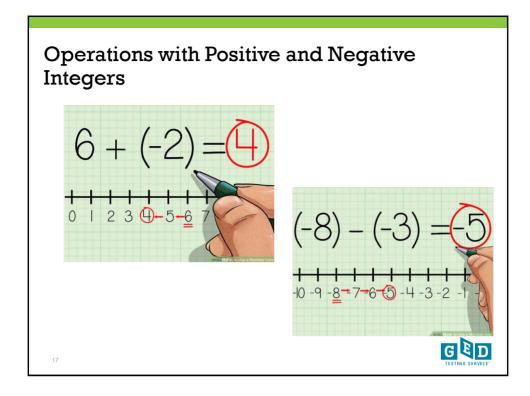


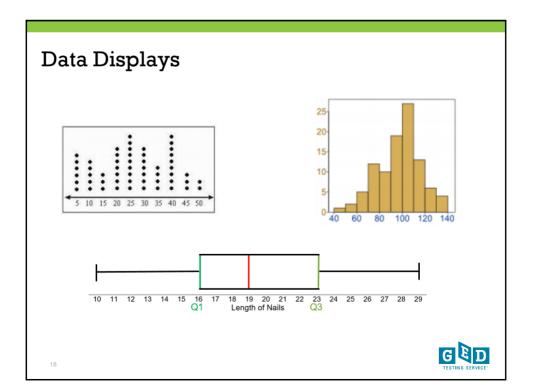


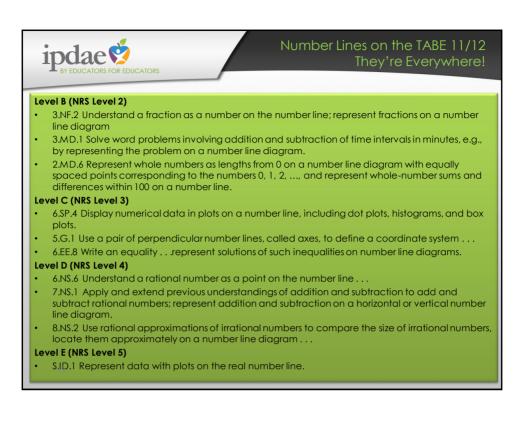


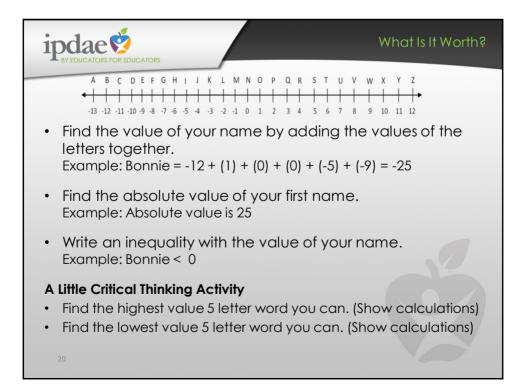


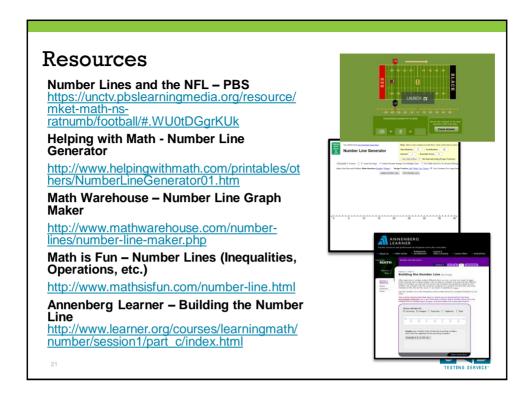


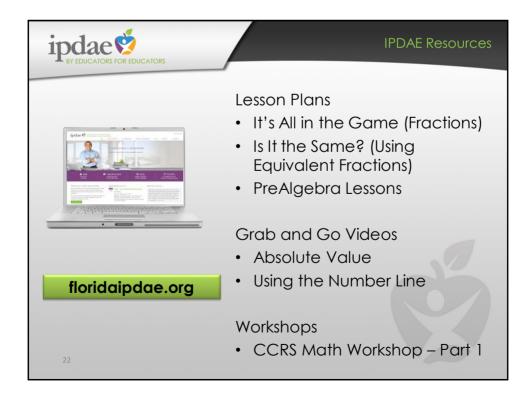


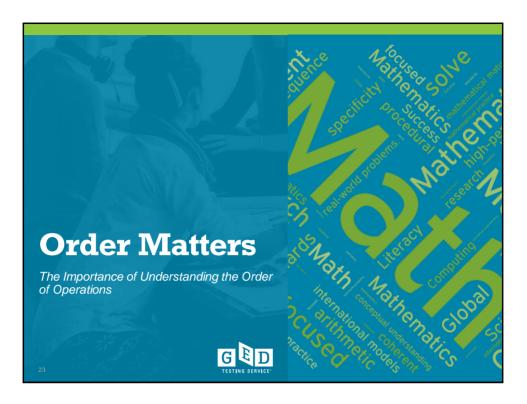


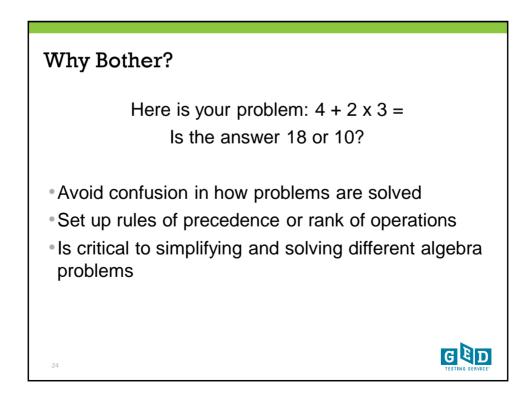


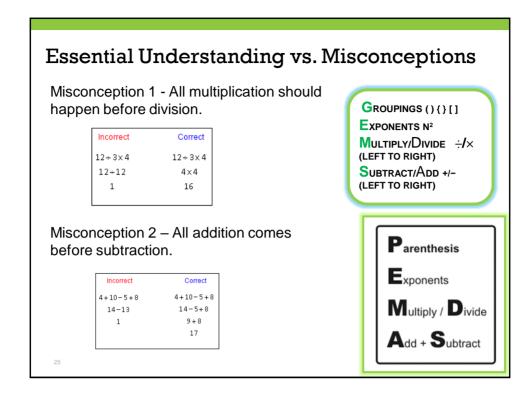


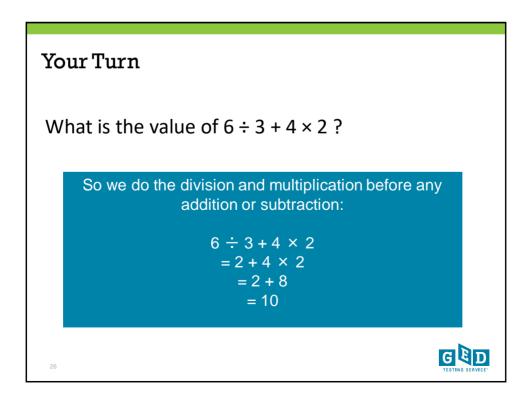


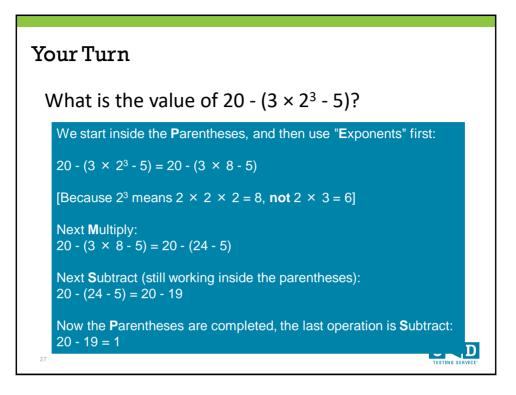




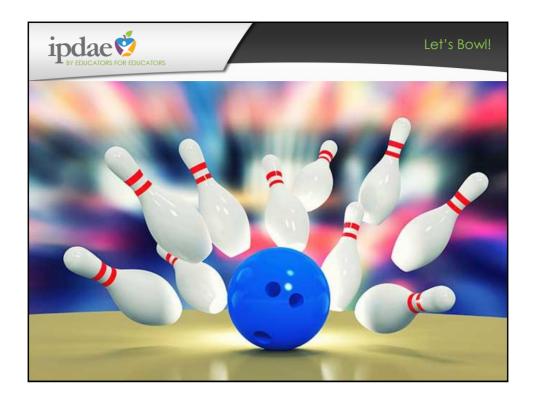


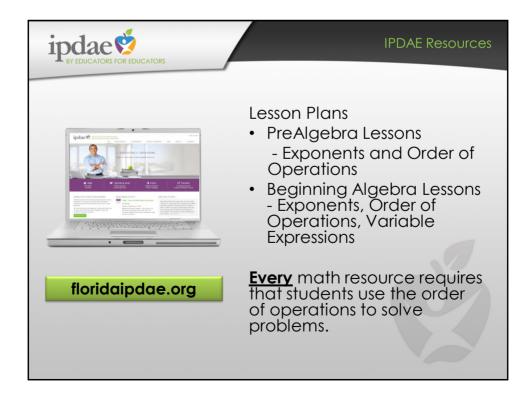




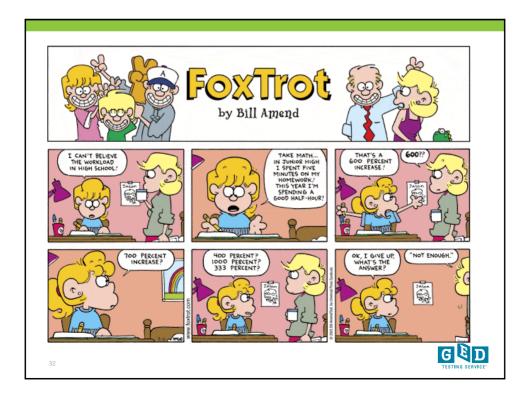


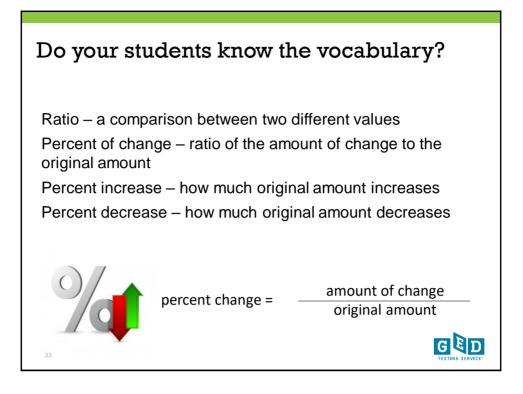
ipd	TABE 11 and 12 Sample Question	
6	6. Make each equation equal to 10x+11. Drag the tile into each box to construct your answer.	
	2	
	Expression A: $3(-+4) + x - 1$	
	Expression B: $(6x + 5) - 2x + 1$	
	Expression C: $7(+2) + 3x - $	
	x 2x 3x 1 2 3	
	In order to solve problems on the TABE 11 and 12, students need to use the order of operations! From the basics of numeracy to geometry to algebra, order matters!	
28		

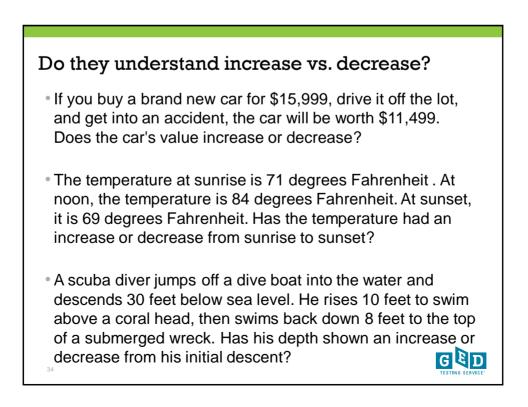


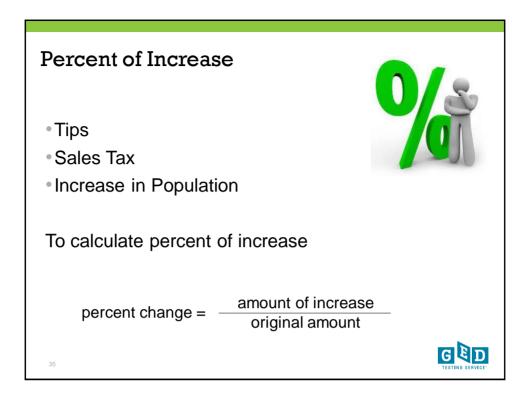


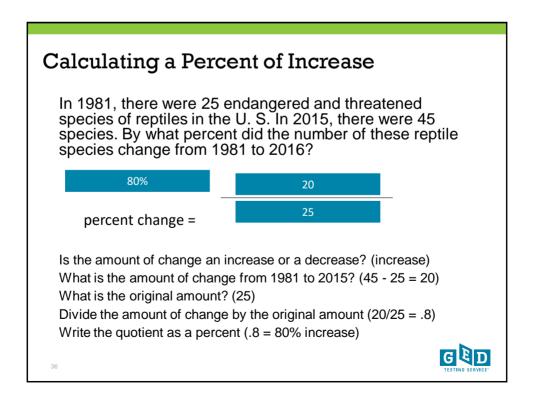


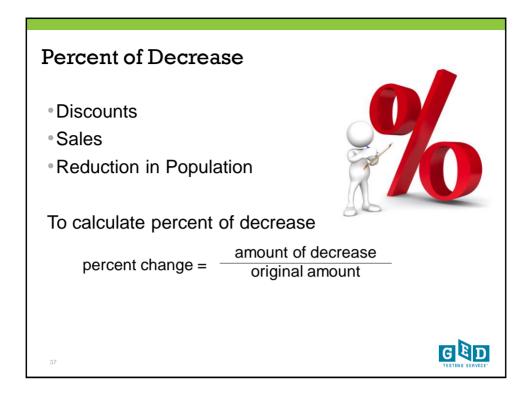


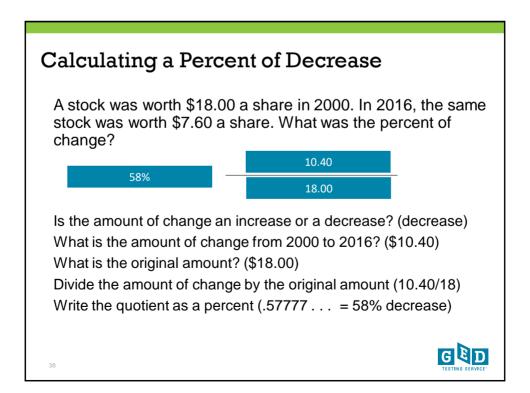


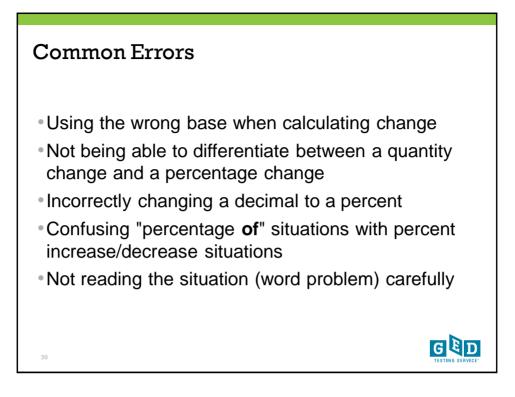


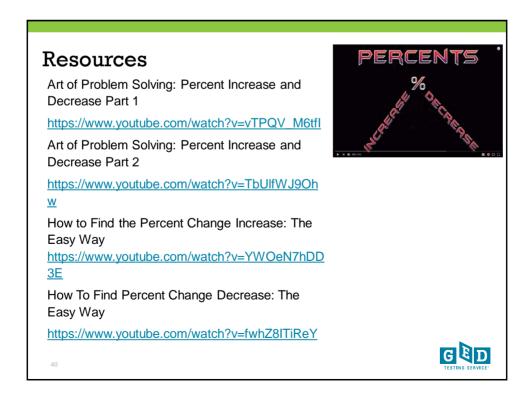


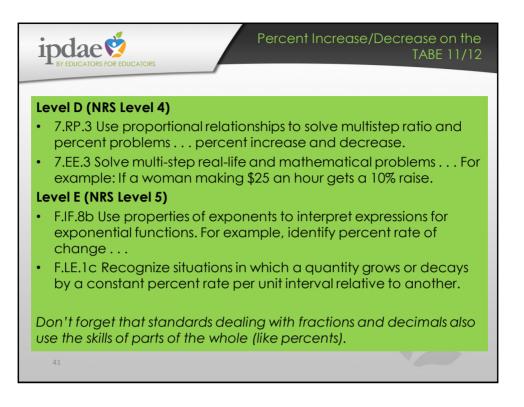








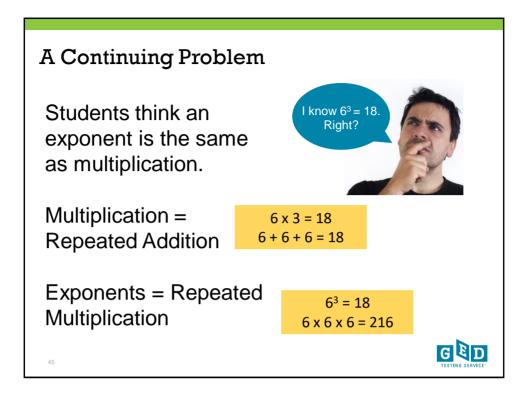


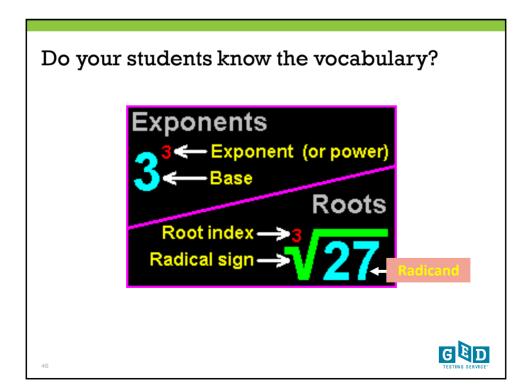


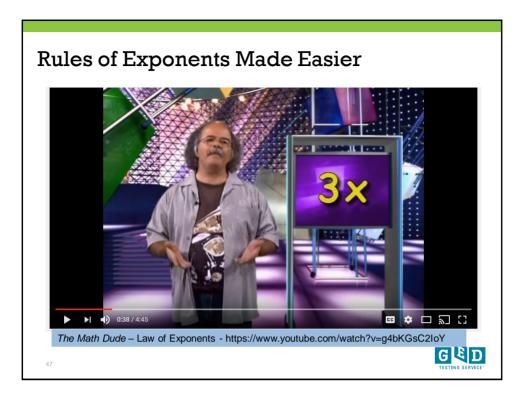




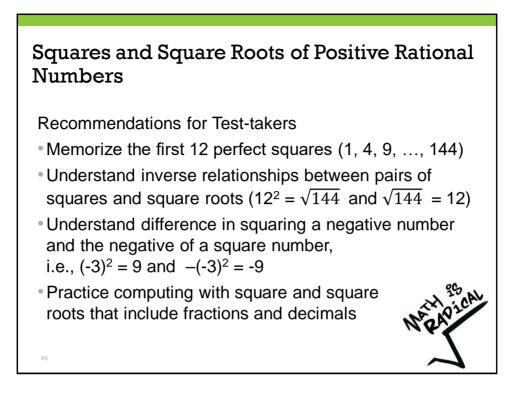


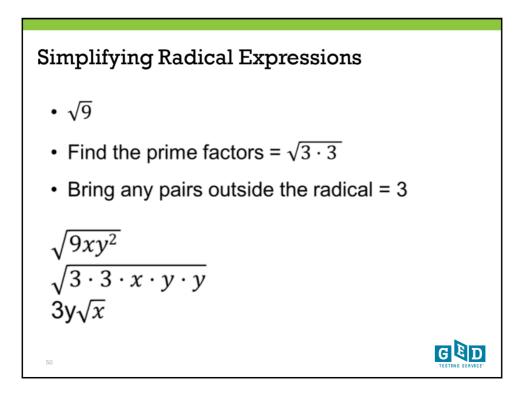


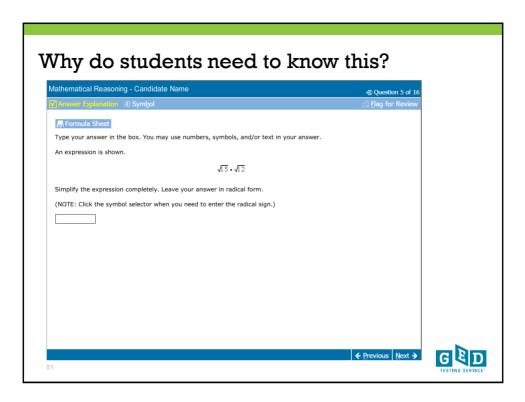


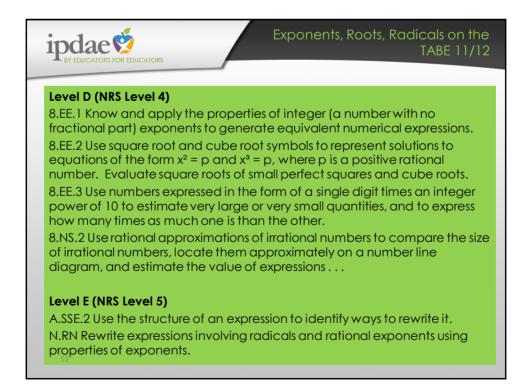


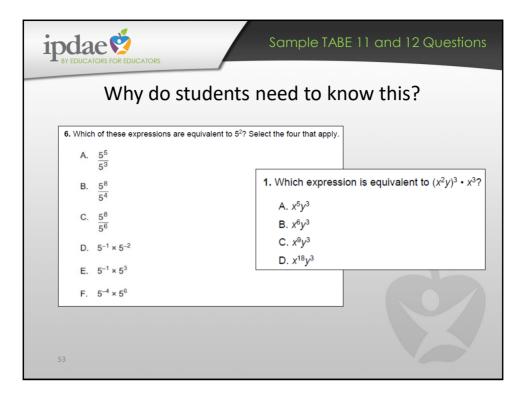
	Rule	Example	
1	x <sup>1</sup> = x	5 <sup>1</sup> = 5	
2	$x^0 = 1$	5 <sup>0</sup> = 1	
3	$x^{-1} = \frac{1}{x^1}$	$5^{-1} = \frac{1}{5}$	
4	$(x^m)(x^n) = x^{m+n}$	$(x^2)(x^3) = x^{2+3} = x^5$	
5	$\frac{\mathbf{x}^{\mathbf{m}}}{\mathbf{x}^{\mathbf{n}}} = \mathbf{x}^{\mathbf{m} \cdot \mathbf{n}}$	$\frac{x^3}{x^2} = x^{3-2} = x^1$	
6	$(x^{m})^{n} = x^{(m)(n)}$	$(x^3)^2 = x^{(3)(2)} = x^6$	
7	$(xy)^n = x^n y^n$	$(xy)^3 = x^3y^3$	
8	$(\frac{x}{y})^n = \frac{x^n}{y^n}$	$(\frac{x}{y})^3 = \frac{x^3}{y^3}$	
9	$x^{-n} = \frac{1}{x^n}$	$x^{-2} = \frac{1}{x^2}$	





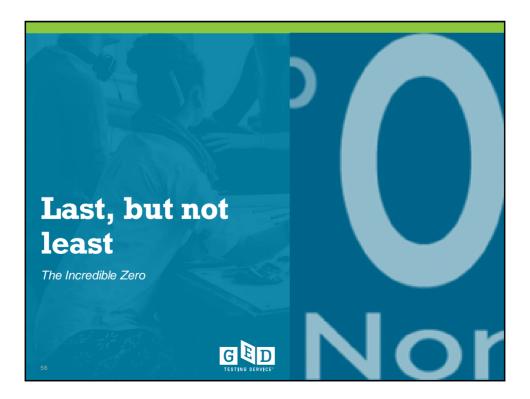


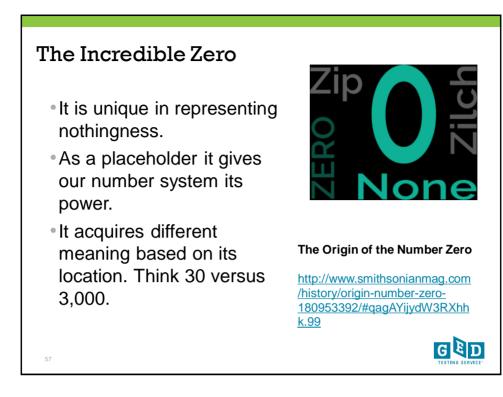




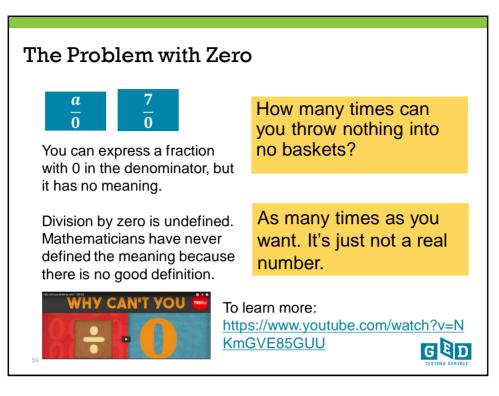








Properties of Zero		
Property	Example	
a + 0 = a	4 + 0 = 4	
a – 0 = a	4 - 0 = 4	
$a \times 0 = 0$	$6 \times 0 = 0$	
0 / a = 0	0/3 = 0	
a / 0 = undefined ( <u>dividing by zero is undefined</u> )	7/0 = undefined	
0 <sup>a</sup> = 0 (a is positive)	$0^4 = 0$	
http://www.mathsisfun.com/numbers/zero.html		





GED® test Calculator-Prohibited Indicators	
Order Fractions and Decimals	Place the following numbers in order from greatest to least: 0.2, -1/2, 0.6, 1/3, 1, 0, 1/6
Factors and Multiples	Find the LCM that is necessary to perform the indicated operation. $7/6 - 1/4 =$
Rules of Exponents	Simplify the following: (x <sup>3</sup> ) <sup>5</sup>
Distance on a Number Line	Find the distance between two points -9 and -3 on a number line
	G E D TESTING SERVIC

GED <sup>®</sup> test Calculator-Prohibited Indicators	
Operations on Rational Numbers	Solve: 3 (1/2) ÷ 3 1/2 =
Squares and Square Roots of Positive Rational Numbers	Find $\sqrt{9}$ Find $\sqrt{24}$
Cubes and Cube Roots of Rational Numbers	Find (-4) <sup>3</sup>
Undefined Value Over the Set of Real Numbers	Solve $(2x - 3)(x + 2) = 0$
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