

lesson 3

Fry This								
Con each	nplete e 1 table.	ach table. Use a cal	culator to c	omplete	e the second column f	for		
	x	$x^{\frac{1}{2}}$		x	$x^{\frac{1}{3}}$			
	1	$1^{\frac{1}{2}} =$		1				
	4	$4^{\frac{1}{2}} =$		8				
	9			27				
	16			64				
	25			125				
			,					

Feb 22-9:58 PM

Lesson 4.3 a.notebook

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccc} 4 & 4^{\frac{1}{2}} = \\ 9 \\ 16 \\ \end{array} $
16
25

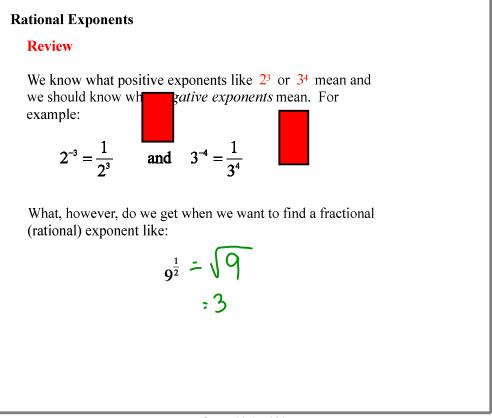
What do you notice about the numbers in the first column? Compare the numbers in the first and second columns. What conclusions can you make?

What do you think the exponent /2 means?

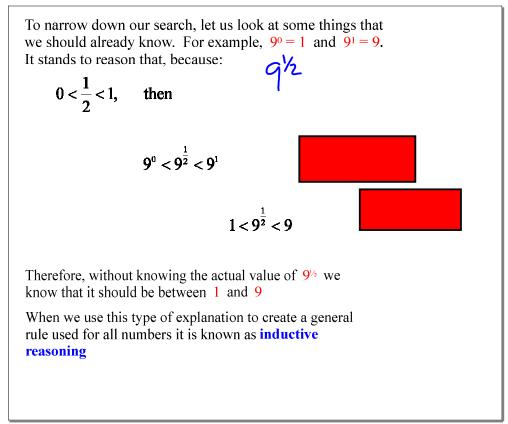
What do you think mean? Explain your reasoning.

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x 1 8 27 64 125	$x^{\frac{1}{3}}$	What do you notice about the numbers in the first column? Compare the numbers in the first and second columns. What conclusions can you make? What do you think the exponent means? What do you think and mean?



Oct 7-10:04 AM



We know from our *Product of Powers* exponent law that:

$$a^m \times a^n = a^{(m+n)}$$

If we choose to multiply $9^{\frac{1}{2}}$ by itself we get:

 $9^{\frac{1}{2}} \times 9^{\frac{1}{2}} = 9^{\left(\frac{1}{2}+\frac{1}{2}\right)}$ or 9^{1}

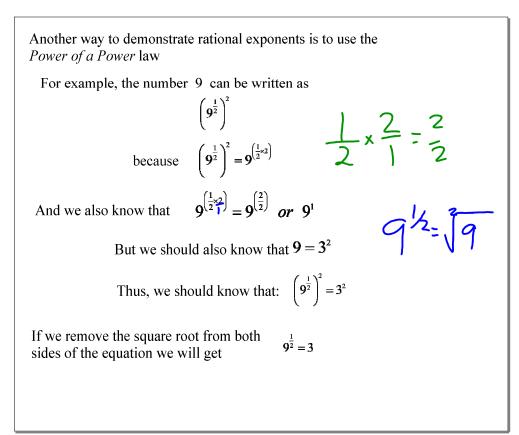
But what number, multiplied by itself, will equal 9? That is, if:

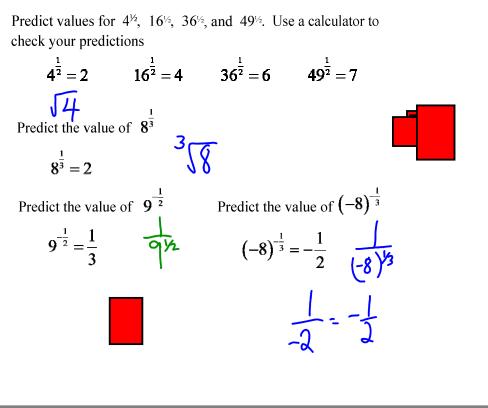
$$9 = 9^{\frac{1}{2}} \times 9^{\frac{1}{2}}$$

Could we also write it like so?

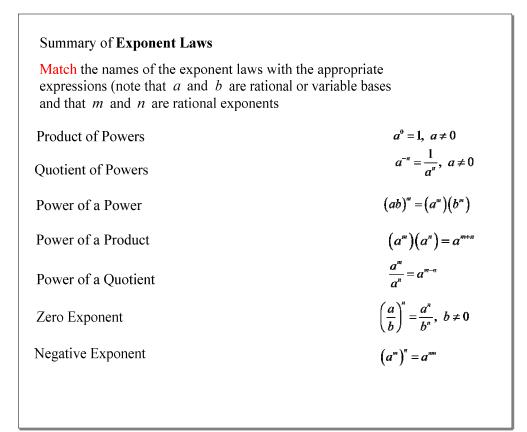
 $9 = w \times w$

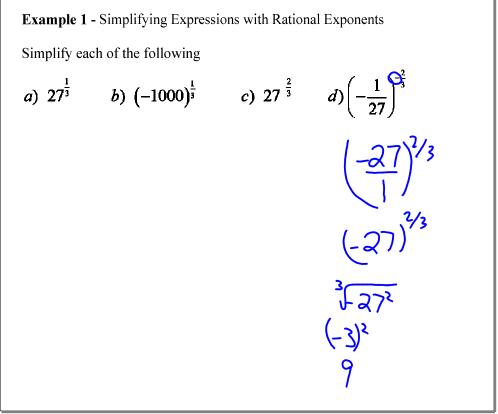




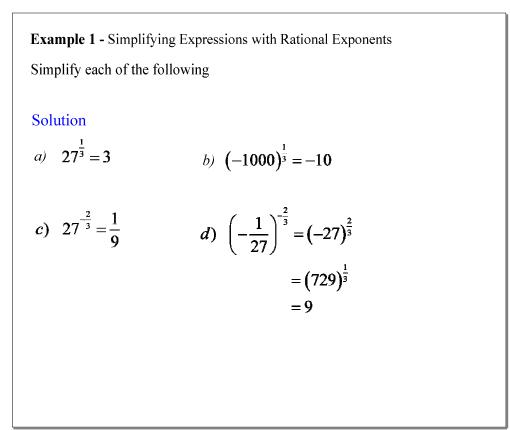


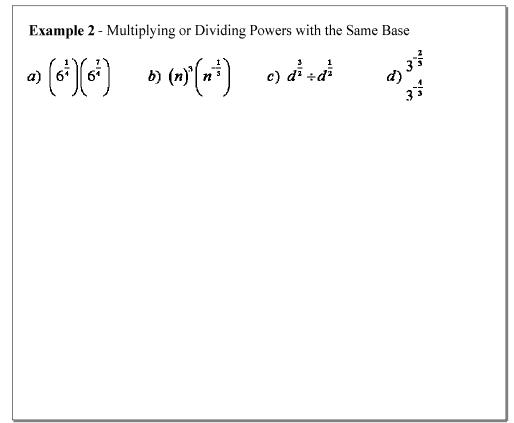
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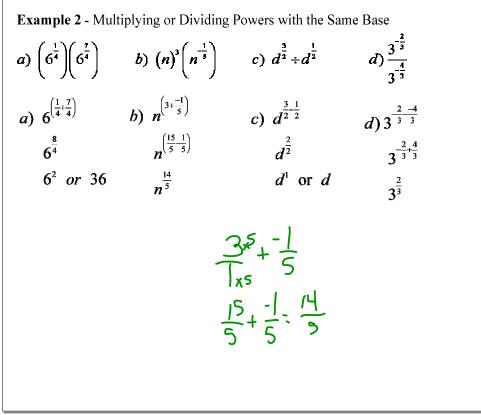


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