

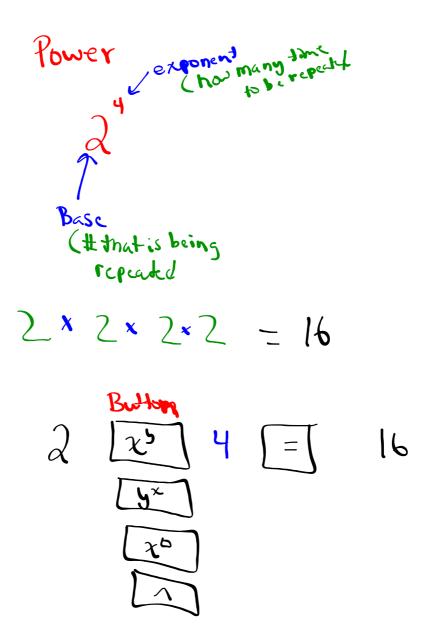


Oct. 26, 2017



## 1) Complete the chart

Power	Base	Exponent	Expanded Form	Exponential Form	Standard form
47					
	2	6			
	11	3			
		4			81
	7				16807
		-	12x12x12		









## 1) Complete the chart

Power	Base	Exponent	Expanded Form	Exponential Form	Standard form	
<b>4</b> <sup>7</sup>	7	7	4x4x4x4x4x4x4	7	16384	
2°	2	6	2x2x2x2x2x2	ኃ	64	
الع	11	3	11x11x11	الع	1331	
34	3	4	3x3x3x3	3 <sup>٩</sup>	81	
75	7	5	7x7x7x7x7	75	16807	
123	الم	3	12x12x12	12 <sup>3</sup>	1728	

## Solution to Homework

			İ	i		<del></del>
	Power	Base	Exponent	Exponential	Expanded	Standard
			_	Form	Form	Form
a)	$7^3$	7	3	<b>7</b> <sup>3</sup>	7x7x7	343
b)	9 <sup>4</sup>	9	4	94	9x9x9x9	6561
<u>c)</u>	6 <sup>2</sup> _	6	2	$6^2$	6x6	36
<u>d)</u>	4 <sup>5</sup>	4	5	<b>4</b> <sup>5</sup>	4x4x4x4x4	1024
e)	3 <sup>5</sup>	3	5		3x3x3x3x3	243
<u>f)</u>	10 <sup>4</sup>	10	4	10 <sup>4</sup>	10x10x10x10	10000
g)	54	5	4	5 <sup>4</sup>	5x5x5x5	625
h)	4 <sup>5</sup>	4	5	<b>4</b> <sup>5</sup>	4x4x4x4x4	1024
i)	<b>8</b> <sup>3</sup>	8	3	<b>8</b> <sup>3</sup>	8x8x8	512
j)	<b>3</b> <sup>9</sup>	3	9	3 <sup>9</sup> 3	x3x3x3x3x3x3x3x3	19683
k)	8 <sup>2</sup>	8	2	8 <sup>2</sup>	8x8	64
1)	5 <sup>6</sup>	5	6	5 <sup>6</sup>	5x5x5x5x5x5	15625
m)	$3^3$	3	3	$3^3$	3x3x3	27
n)	112	11	2	11 <sup>2</sup>	11x11	121
<b>(</b> 0)	6 <sup>4</sup>	6		64	6x6x6x6	1296
<b>p</b> )	<b>2</b> <sup>5</sup>	2	5	<b>2</b> <sup>5</sup>	2x2x2x2x2	32



Ex. 2)

Ex. 3)

Find the missing exponent (Show Wor

t (Show Work)

$$4^{5} = 1024$$
 $4' = 4$ 
 $4' = 16$ 
 $4' = 64$ 
 $4' = 256$ 

Find the missing base.

$$\frac{6}{3^{2}} = 36$$

$$\frac{3^{2} = 4}{3^{2} = 16}$$

$$\frac{5^{2} = 26}{5^{2} = 26}$$

Place a < 0, > or = in the box. (Show your calculation)

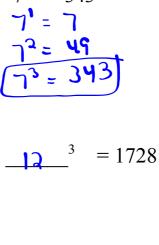
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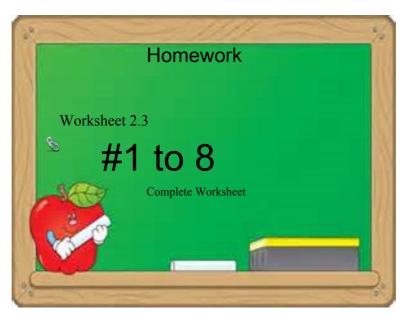


 $6^3$ 

243

216





**Quiz Tomorrow** 

WS 2.3 Powers.doc