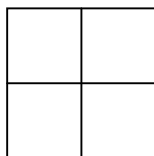
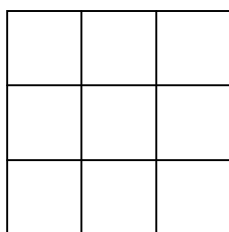


**Strand:** Numbers and Operations **Name:** KEY  
**Skill Addressed:** Understand Exponents and Radicals **Block:**       
**Activity:** Exponents Chart

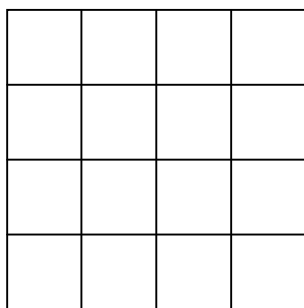
Complete the chart to find the perfect Squares, Cubes and more!



2 by 2 is  
4 little squares



3 by 3 is  
9 little squares



4 by 4 is 16 little squares

<b><i>1</i></b>	<b><i>a<sup>2</sup></i></b>	<b><i>a<sup>3</sup></i></b>	<b><i>a<sup>4</sup></i></b>	<b><i>a<sup>5</sup></i></b>	<b><i>a<sup>6</sup></i></b>
0	0	0	0	0	0
1	1	1	1	1	1
2	4	8	16	32	64
3	9	27	81	243	
4	16	64			
5	25	125			
6	36				
7	49				
8	64				
9	81				
10	100	1000	10000	100000	

Make sure that you are familiar with these numbers; it is important that you recognize these numbers because they help to simplify expressions, and you will discover them often throughout your mathematical work.

Try these:  $\sqrt[3]{27} = 3$

$\sqrt[5]{32} = 2$

[use the table]

$\sqrt{64} = 8$

$\sqrt[3]{64} = 4$

$\sqrt[4]{16} = 2$

$\sqrt[5]{100000} = 10$