

# Lesson 4: Graphing Exponentials in the Form $y = b^x$ – Minds On

Complete the tables below.

Use whole numbers and fractions (no decimals!)

$y = 2^x$		$y = 3^x$		$y = 10^x$	
x	y	x	y	x	y
5	32	5	243	5	100 000
4	16	4	81	4	10 000
3	8	3	27	3	1000
2	4	2	9	2	100
1	2	1	3	1	10
0	1	0	1	0	1
-1	$0.5 \frac{1}{2}$	-1	$\frac{1}{3} 0.333$	-1	$\frac{1}{10} 0.1$
-2	$\frac{1}{4}$	-2	$\frac{1}{9} 0.111$	-2	$\frac{1}{100} 0.01$
-3	$\frac{1}{8}$	-3	$\frac{1}{27}$	-3	$\frac{1}{1000} 0.001$

Graph the three exponential relations on the axes below.

