

Activity 2 Assessment

Exploring Powers of 10

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Writes a power of 10 greater than 1 in exponent form

$10\ 000\ 000 = 10^7$
(the number of zeros is equal to the exponent)

Uses a place-value chart to multiply a decimal by a power of 10 greater than 1

0.032×10^4
In the chart, move each digit 1 place to the left for each multiplication by 10.

H	T	O	.	t	h	th
		0	.	0	3	2
3	2	0	.			
			.			

$0.032 \times 10^4 = 320$

Writes a power of 10 between 0 and 1 in exponent form

$0.000\ 001 = 10^{-6}$
(the number of zeros, including the initial zero, is equal to the negative exponent)

Uses a place-value chart to multiply a decimal by a power of 10 between 0 and 1

5.6×10^{-3}
In the chart, move each digit 1 place to the right for each division by 10.

T	O	.	t	h	th	t-th
	5	.	6			
	0	.	0	0	5	6
		.				

$5.6 \times 10^{-3} = 0.0056$

Observations/Documentation