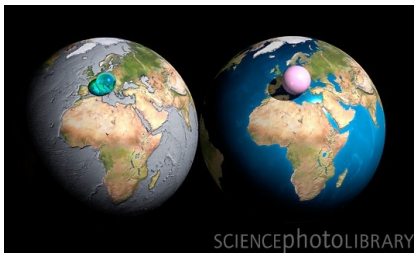
Scientific Notation



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http://www.youtube.com/watch?v=WwmJ5nMmigQ

http://www.schooltube.com/video/9e486c34d7994029bc17/

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When will I EVER use this?!?

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How do we get from to

$7{,}000{,}000 \rightarrow 7 \times 10^{9}$

?

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How do we get from to

$2.1 \times 10^{10} \rightarrow 21{,}000{,}000{,}000$

?

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Let's develop the process...

4,000,000

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1.2×10^5

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Special Cases

1,002,000

40,567,000

35,045,000,000

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Brain Break

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Practice

300,000,000

12,000

8,300,000

20,100,000

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474,200,000

3,000

30,500

52,000,000

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4.715×10^6

8.03×10^8

4×10^6

2.3×10^5

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6.5×10^7

5×10^6

3.05×10^4

6.95×10^5

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Brain Break

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1.2×10^3 35 million 6.03×10^4

0.9×10^5 5.0×10^1 $456{,}000^6$ 4.08×10^4

8×10^9 47×10^9 21,000

✓ ✗

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Directions: Determine which of the boxes below provide the answer. Draw an arrow from the box containing the number to the empty box it completes. You must draw one arrow into each empty box

Show 2,500,000 written in scientific notation.

☐ x ☐

25 .25 2.5 10^5 10^6 10^7

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Comparing Numbers in Scientific Notation

1.3×10^6 ◯ 1.3×10^4

2.097×10^5 ◯ 3.12×10^3

8.706×10^5 ◯ 8.809×10^5

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1.3×10^6 ◯ 1,300,000

98,000 ◯ 1.1×10^5

4.14×10^6 ◯ 2.3×10^5

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