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How to participate in this session.


Raising Your Hand
To ask a question, raise your hand using the button in the Participants window.

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At any time, you can click on any one of the emotion indicators to provide feedback to the moderator.
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Me: Thats a great point!
Moderator: I will File Transfer the reading
assignment
Modignment. Momework has just been

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Type your message in the text box and then select Send.
Jon: Let
session

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What you will learn:

1. How to convert a number from
$\qquad$
standard form to scientific notation.
2. How to convert a number from scientific
notation to standard form.
3. How to convert numbers that are less $\qquad$ than one. Ex: 0.00056
4. How to convert numbers that are greater than one. Ex: 56,000,000,000

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Why use it?
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It was developed in order to easily $\qquad$ represent numbers that are either very $\qquad$ large or very small.

It is easier to read and tell at a glance what the order of magnitude is (rather than counting zeros).

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## Converting Standard Form to Scientific Notation <br> Step $1:$ <br> - Locate the decimal. <br> - Move the decimal to the left. <br> - Leave only one number in front of the decimal.

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## More Practice

On these, decide where the decimal will be moved.

1. $734,000,000=\square \times 10^{8}$
2. $870,000,000,000=\square \times 10^{11}$
3. $90,000,000,000=\square \times 10^{10}$

## Answers

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1) $7.34 \times 10^{8}$
2) $8.7 \times 10^{11}$
3) $9 \times 10^{10}$

Converting Scientific Notation to Standard Form
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$\qquad$ to return it to a whole number. The exponent tells you how many spaces to $\qquad$ move.
$3.4 \times 10^{5}$ in scientific notation $\qquad$ 3.40000 move the decimal 5 spaces 340,000 is standard form

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You should end up with a negative exponent when
converting a number that is less than one to scientific notation.
=6.7 > 10.6
=6.7 > 10.6
You should end up with a positive exponent when converting a number larger than one to scientific notation.

- Ex: $64,000=6.4 \times 10^{4}$
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-Move decimal to the right untilonly 1 number is in front of the decimal. Drop the zeros.

$$
.000065 \text { becomes } 6.5
$$

-You moved 5 spaces to the right, so the exponent 5 should be negative.
$6.5 \times 10^{-5}$
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Print your participant

Why? To email to your instructor as proof of attendance. To get 1 hour of credit towards your 10 hours this week.

How? Place your cursor and left click your mouse on the participant window. On your keyboard, hold down the SHIFT and PRINT SCREEN keys. Then open a Word document and paste (Ctrl + V). Last, attach it to an email or word document and email it to your instructor.

## Final Comments

- This session has been recorded for you to play back and view at any time.
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- If you have any questions regarding this topic at a later time, don't hesitate to contact your instructor.
- Don't forget to use the Smarthinking tutor feature within your class site. A tutor is available to you 24 hours a day.

Thank you for joining us!
I hope you will take advantage of our future workshop offerings and will attend some of those as $\qquad$ well. $\qquad$
Have a great day!
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