

| Questions: | Notes: |
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|  | Standard Decimal Notation $\rightarrow$ Scientific Notation |
|  | 1. Draw an arrow so there is one number to the left of the arrow. Put a decimal point at |
|  | the tip of the arrow. You just created a number between 1 and 10. |
|  | 2. Count the spaces from the arrow to the original decimal point. |
|  | This number is your exponent number. It will be positive or negative depending on |
|  | which way you moved when you went from arrow to decimal. |
|  | Move right: positive exponent |
|  | Move left: negative exponent |
|  | 3. Write in scientific notation by using the number from Step 1 (with the new decimal |
|  | instead of the arrow) times 10 raised up to the exponent number from Step 2. |
|  | $62,000=\underline{6.2 \times 10^{4}} \quad 125=\underline{1.25 \times 10^{2}}$ |
|  | $0.00008852=\underline{8.852 \times 10^{-5}} 0.073=\underline{7.3 \times 10^{-2}}$ |
|  | Scientific Notation $\rightarrow$ Standard Decimal Notation |
|  | 1. Circle the exponent. |
|  | 2. Move the decimal point left or right the number of times shown by the |
|  | exponent. |
|  | Positive exponent: Move decimal right |
|  | Negative exponent: Move decimal left |
|  | 3. Rewrite the number |
|  | 4. Put zeros in the empty spaces. |
|  | $7.25 \times 10^{5}=\underline{725,000} \quad 5 \times 10^{-2}=\underline{0.05}$ |
|  | $9.06 \times 10^{-4}=\underline{\underline{0.00906}} \underline{6.024 \times 10^{6}=\underline{6,024,000}}$ |
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