| Example 1 Adding and Subtracting Numbers in Scientific Notation with the Same Power (Very Small)<br><br>The approximate thickness of a standard CD is $1.2 \cdot 10^{-3}$ meter.<br><br>A slim jewel case is about $5.3 \cdot 10^{-3}$ meter thick.<br><br><br><br>a) The CD is placed on top of the jewel case. What is the total thickness of the CD and jewel case? | Ask yourself....<br>What operation is the problem asking me to complete?<br><br>What do I notice about the bases?<br><br>Can I factor out the same base and exponent using parenthesis?<br><br>Is my answer written in scientific notation?<br>If not, then rewrite!!!! |
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| b) How much thicker is the jewel case than the CD? | What operation is the problem asking me to complete?<br><br>What do I notice about the bases?<br><br>Can I factor out the same base and exponent using parenthesis?<br><br>Is my answer written in scientific notation?<br>If not, then rewrite!!!! |
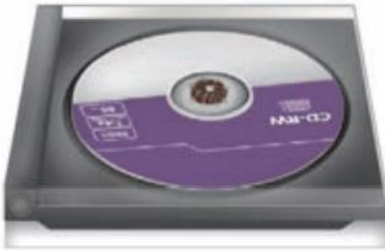
Adding and Subtracting Numbers in Scientific Notation with the Same Power