

Feb 7, 2012

go over answers SD worksheet
Scientific Notation/Converting units

Warm- Up

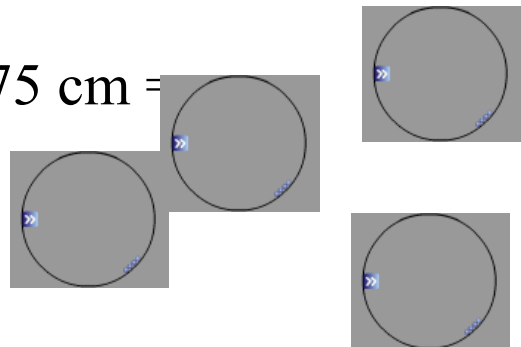
Complete each of the following calculations giving the correct number of SF in your answer:

1) $22.37 \text{ cm} \times 3.10 \text{ cm} \times 85.75 \text{ cm} =$

2) $12.4\text{km} + 8\text{km} - 10\text{km} =$

3) $2000/59 =$

4) $120 - 7.08 =$



Scientists have developed a shorter method to express very large numbers. This method is called **scientific notation**. Scientific Notation is based on powers of the base number 10.

123 000 000 000

Write this number in scientific notation by following the steps below.

Step 1: Put the decimal after the first digit.

1.23000000000

Step 2: Find the exponent by counting the number of places from the decimal to the end of the number.

1.23000000000
1 2 3 4 5 6 7 8 9 10 11

Step 3: Drop the zeros to get the coefficient. Multiply it by the base (which is always 10) and include the exponent that you found in step 2.

1.23×10^{11}

Try This

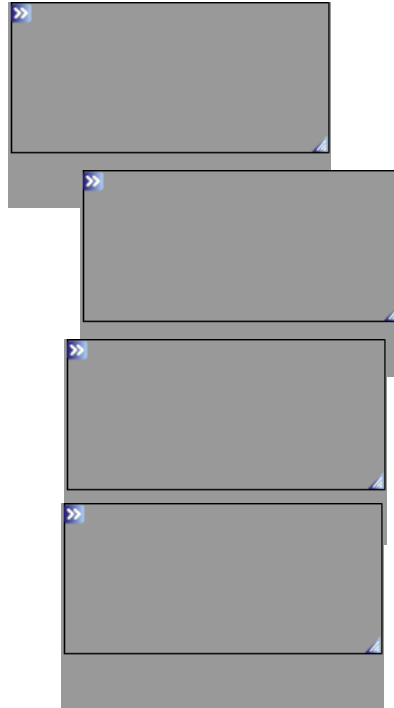
Put the following numbers in Scientific Notation

1. 56,000,000,000

2. 2,305,000,000,000

3. 0.00000173

4. 0.000000502



Four empty text input boxes are provided for the student to write the scientific notation for each number. Each box is a gray rectangle with a small blue arrow icon in the top-left corner, indicating it is a text input field.

Complete the following questions

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Attachments

S10 sig figs answers.notebook