

Objectives:

- Understanding the general layout of the metric system extends beyond just kilo and milli.
- Can you use your calculator properly.

1. On your calculator exponent key. On most calculators it is a "EE" button.

2. Type in the number 1,500,000 m as a scientific number. Do NOT use the "v" button.

$$1.5E6$$

3. Showing your work via factor label and holding the correct significant figures, convert the previous number to nm. Please express this number in scientific notation.

$$1.5E6 \cdot \frac{1 \text{ m}}{1E9 \text{ nm}} = 1.5E15 \text{ nm}$$

4. Type number 0.0000015km into your calculator. Do NOT use the "v" button.

$$1.5E-6 \text{ m}$$

5. Showing your work via factor label and holding the correct significant figures, convert the previous number to nm. Please express this number in scientific notation.

$$1.5E-6 \text{ km} \cdot \frac{1 \text{ m}}{1.0E12 \text{ nm}} = 1.5E6 \text{ nm}$$

6. The circumference of the Earth at the poles is nearly 39,900.km.

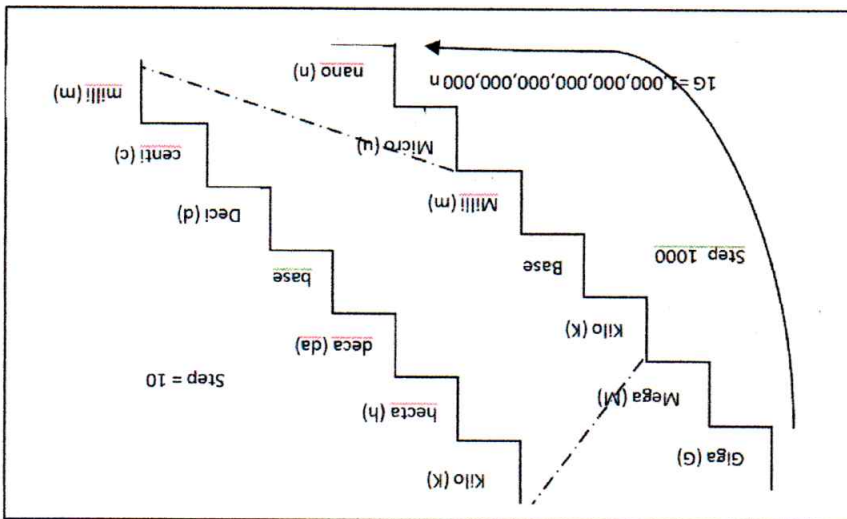
Express this number in

- Scientific notation: $3.99E4 \text{ km}$
- Convert to micrometers. Express your answer in scientific notation and hold sigfigs.

$$3.99E4 \text{ km} \cdot \frac{1 \text{ km}}{1.0E9 \text{ um}} = 3.99E13 \text{ um}$$

$$3.99E4 \text{ km}$$

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Big Metric

My calculator
EE
X⁻¹