

Name Key

Date _____

Mrs. Roubos

8R Period _____

Scientific Notation Do Now

1. When the number 65 is divided by 2.5×10^4 what is the result expressed in Scientific Notation.

$$(65) \div (2.5 \times 10^4) = 2.6 \times 10^{-3}$$

2. Simplify: $(1.5 \times 10^{-4})(120000)$

$$1.8 \times 10^1$$

3. Is the number of candies in the jar closer to 2.3×10^2 or 2.3×10^7 ?



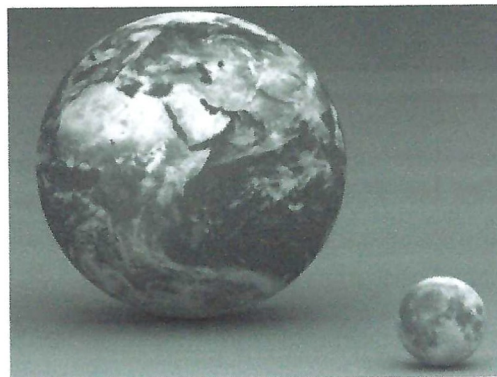
* Convert the #'s into standard form to help you decide

$$2.3 \times 10^2 = 230 \text{ candies}$$

$$2.3 \times 10^7 = 23,000,000 \text{ candies}$$

The # of candies in the jar would be closer to 2.3×10^2

4. Is the distance to the moon from Earth closer to 2.3890×10^{-2} miles or 2.3890×10^5 miles?



* Convert the #'s into standard form to help you decide

$$2.3890 \times 10^{-2} = 0.02389 \text{ miles}$$

$$2.3890 \times 10^5 = 238,090 \text{ miles}$$

The distance to the moon from Earth is closer to 2.3890×10^5 miles