

Quiz: Comparing Numbers in Scientific Notation

Answer the questions below WITHOUT a calculator! You may use your notes.

<p>1) 4×10^7 is _____ times as much as 4×10^3?</p> <p>a) 4×10^{10} b) 4×10^4</p> <p>c) 10^{10} d) 10^4</p>	<p>2) The wavelength of red light is about 8×10^{-7} meters, and the wavelength of violet light is 4×10^{-7} meters. About how many times longer is the wavelength of red light than the wavelength of violet light?</p> <p>a) 4 times as long b) 10^7 times as long</p> <p>c) 10^2 times as long d) 2 times as long</p>
<p>3) 9×10^2 is _____ times as much as 3×10^{-2}?</p> <p>a) 6×10^4 b) 3×10^{-4}</p> <p>c) 3×10^4 d) 6×10^0</p>	<p>4) The Milky Way galaxy has a diameter of about 1×10^{21} meters. The largest galaxy known to man, the IC 1101, has a diameter of 5×10^{22} meters. The diameter of the IC 1101 is about how many times greater than the diameter of the Milky Way?</p> <p>a) 5 b) 5,000</p> <p>c) 500 d) 50</p>
<p>5) Using the internet, find facts involving scientific notation for each of the following (do NOT use the ones in the notes or homework!):</p> <ul style="list-style-type: none">• The size of a very small object.• The speed of a very fast object.• The distance between the Sun and one of the planets in the galaxy. <p style="text-align: center;">Be sure to include units!</p>	