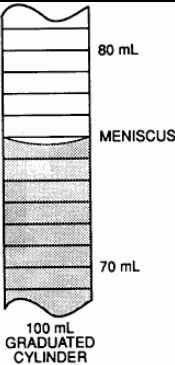


Measurement | Level 1

If you can do all the things listed below, you are ready for the Unit 1 test. Place a checkmark next to each item that you can do! If a sample problem is given, complete it as evidence.

<p>___ 1. I can list five important lab safety rules.</p>	<p>5 important lab safety rules are:</p> <ol style="list-style-type: none">1.2.3.4.5.
<p>___ 2. I can identify the most common laboratory tools such as: beaker, graduated cylinder, Erlenmeyer flask, scoop, beaker tongs, test tube, test tube rack, test tube holder, crucible tongs, Bunsen burner, striker, stirring rod, funnel, dropper pipette (aka eye dropper)</p>	<p>Draw and label as many of the common laboratory tools as you can!</p>
<p>___ 3. I can determine the independent and dependent variable in a lab experiment.</p>	<p>A farmer wants to know what the effect the amount of fertilizer has on the amount of fruit an apple tree produces.</p> <p>What is the independent variable?</p> <p>What is the dependent variable?</p>

<p>___ 4. I can determine the number of significant figures in a measurement.</p>	<p>How many significant figures are there in 30.50 cm?</p> <p>How many significant figures are there in 400.0 sec?</p>
<p>___ 5. I can determine the answer to a math problem to the correct number of significant figures.</p>	<p>To the correct number of significant figures, what is the answer to</p> <p>5.93 mL + 4.6 mL?</p> <p>To the correct number of significant figures, what is the answer to</p> <p>5.93 cm * 4.6 cm?</p>
<p>___ 6. I can read the meniscus on a graduated cylinder to the correct number of significant figures.</p>	<div style="display: flex; align-items: center;">  <div style="margin-left: 20px;"> <p>The volume is _____ mL.</p> </div> </div>
<p>___ 7. I can convert numbers into scientific notation from standard notation.</p>	<p>Convert 87,394,000,000,000 to scientific notation.</p> <p>Convert 0.0000040934 to scientific notation.</p>

<p>___8. I can convert numbers into standard notation from scientific notation.</p>	<p>Convert 5.8×10^9 to standard notation.</p> <p>Convert 4.3×10^{-5} to standard notation.</p>
<p>___9. I can use my calculator to input numbers in scientific notation using the "2nd function & EE keys.</p>	<p>Enter the number 5.67×10^{52} on your calculator and show Mr C. He will initial this box, if you've done it correctly!</p>
<p>___10. I can convert between different metric units by using "King Henry died by drinking chocolate milk".</p>	<p>9.3 km = ? m</p> <p>39,983 mL = ?kL</p>
<p>___11. I can convert between different metric units by using Reference Table C.</p>	<p>1.5×10^{-3} km = ? μm</p> <p>4.67×10^{13} pm = ?dm</p>
<p>___12. I can solve for "x" when it's in the denominator of a fraction.</p>	<p>What is the volume, in cm^3, of 54.6 g of beryllium (density = 1.85 g/cm^3)</p>
<p>___14. I can convert $^{\circ}\text{C}$ to degrees kelvin and degrees kelvin to $^{\circ}\text{C}$.</p>	<p>What kelvin temperature is equal to 200°C?</p> <p>What Celsius temperature is equal to 200K?</p>

<p>___ 16. Given the symbol I can write the name for any element in Group 1, Group 2, Group 13, Group 14, Group 15, Group 16, Group 17 or Group 18 without using a Periodic Table.</p>	<p>Al _____</p> <p>Ca _____</p> <p>Ne _____</p> <p>N _____</p> <p>Na _____</p> <p>S _____</p> <p>Br _____</p> <p>Ge _____</p>
<p>___ 17. Given the symbol or the name, I can determine the Group for any element in Group 1, Group 2, Group 13, Group 14, Group 15, Group 16, Group 17 or Group 18 without using a Periodic Table.</p>	<p>Al _____</p> <p>Ca _____</p> <p>Ne _____</p> <p>N _____</p> <p>Na _____</p> <p>S _____</p> <p>Br _____</p> <p>Ge _____</p>
<p>___ 18. I can calculate percent error using table D.</p>	<p>A student measures the length of the table to be 12.2 m. The value given on the box is 12.35 m. What is the percent error? Report answer in correct number of sig figs.</p>

