

Cells, Tissues, Organs and Systems  
Assignment #2- Using Microscopes Pg 356 of the text

NAME: \_\_\_\_\_

Date Due: \_\_\_\_\_

1. What is magnification?

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2. How do you hold a microscope while carrying it?

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3. What is the difference between the coarse and fine adjustment knobs?

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4. What is the "stage"?

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5. What is a dry mount slide?

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6. How do you prepare a dry mount slide?

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7. It is important to NEVER use the coarse-adjustment knob with ....

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8. How do you prepare a wet mount slide?

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9. What is "the field of View?"

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10. What is diameter?

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11. What is a ratio?

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12. When you adjust your microscope to high-power magnification you cannot use a ruler to determine the field of view because it is too small to measure. *What is the formula to use to calculate the field diameter on high-power?*

13. What is the formula to calculate the ratio?

14. If the high-power lens is 100X and the low-power lens is 10X what is the ratio? (USE THE FORMULA TO SHOW YOUR WORK.)

15. Using the calculation from question #14 calculate the field diameter on high-power if the field diameter on low-power is **3mm**. (USE THE FORMULA TO SHOW YOUR WORK.)

<ul style="list-style-type: none"><li><input type="checkbox"/> Not completed on due date</li><li><input type="checkbox"/> Answers lacked effort and/or knowledge</li><li><input type="checkbox"/> Shows little understanding of the use of a microscope and more studying is needed before you can take part in the labs involving microscopes</li><li><input type="checkbox"/> Many or all questions must be redone #'s _____</li><li><input type="checkbox"/> Parent signature required or receive 0. 50% with a parent signature and redone</li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> Completed with accuracy</li><li><input type="checkbox"/> More explanation needed for some answers</li><li><input type="checkbox"/> Shows good understanding of microscope use</li><li><input type="checkbox"/> <b>More</b> or a <b>better</b> explanation is needed for questions #'s _____</li></ul>	<ul style="list-style-type: none"><li><input type="checkbox"/> Completed with detail</li><li><input type="checkbox"/> Excellent explanations given</li><li><input type="checkbox"/> Shows excellent understanding of microscope use</li><li><input type="checkbox"/> <b>Little</b> or <b>no</b> further explanation is needed Fine tune questions #'s _____</li></ul>
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