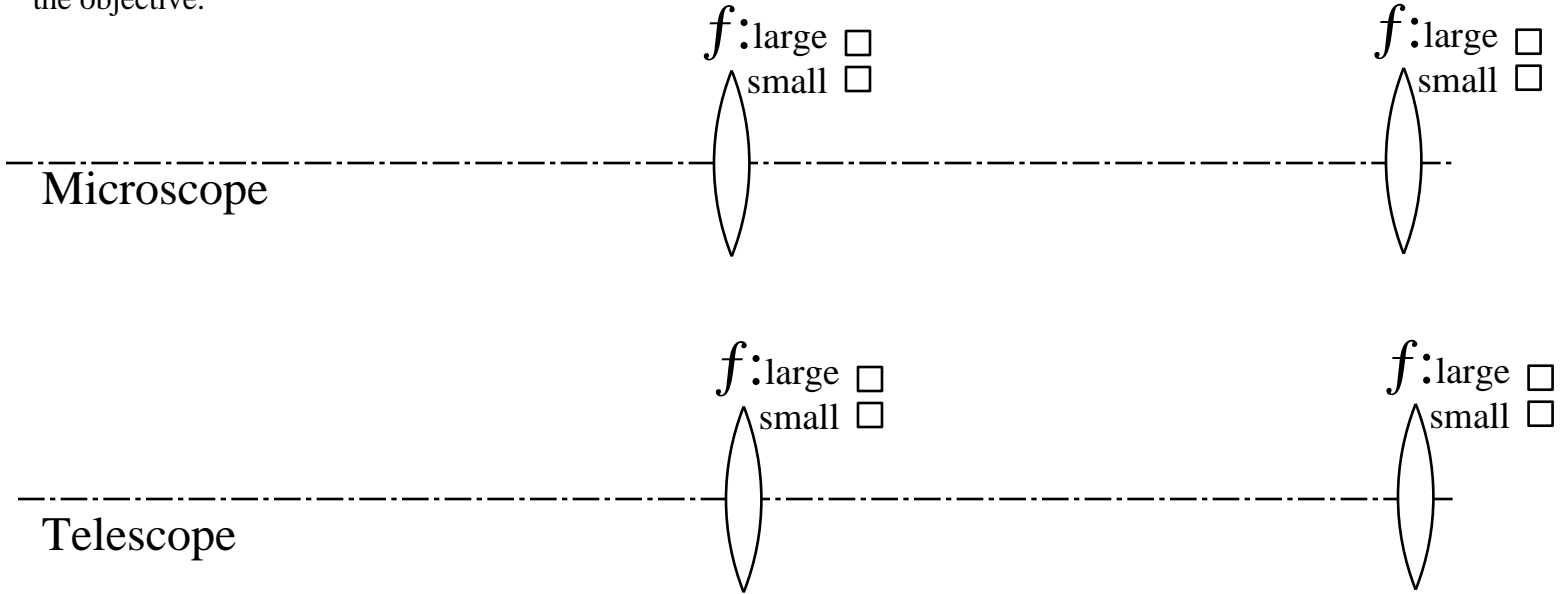


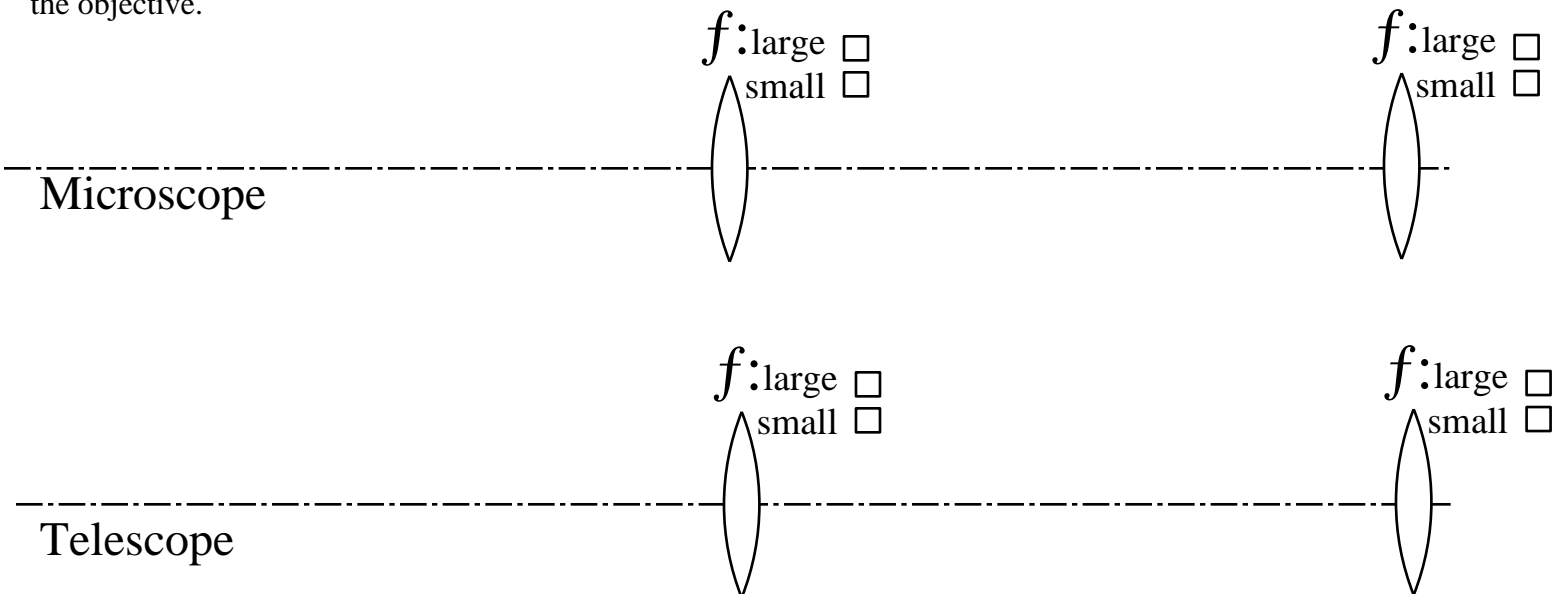
Quiz 9

Consider the below two-lens situations showing a simple compound microscope and a telescope. For each system display in the drawing how the final image is made. Begin by drawing an upright arrow depicting the actual object under observation. Draw and properly locate/size/orient the image of the objective. Label this image **OV** if it is virtual; **OR** if it is real. Draw and properly locate/size/orient the image of the eyepiece. Label this image **EV** if it is virtual; **ER** if it is real. Check a box reporting the relative size of the focal length of the objective and eyepiece. Mark with ● the focal points (one on each side of the lens) of the objective; mark with ∇ the focal points of the eyepiece. Note: the eye is placed far right, and the object being viewed is to the left of the objective.



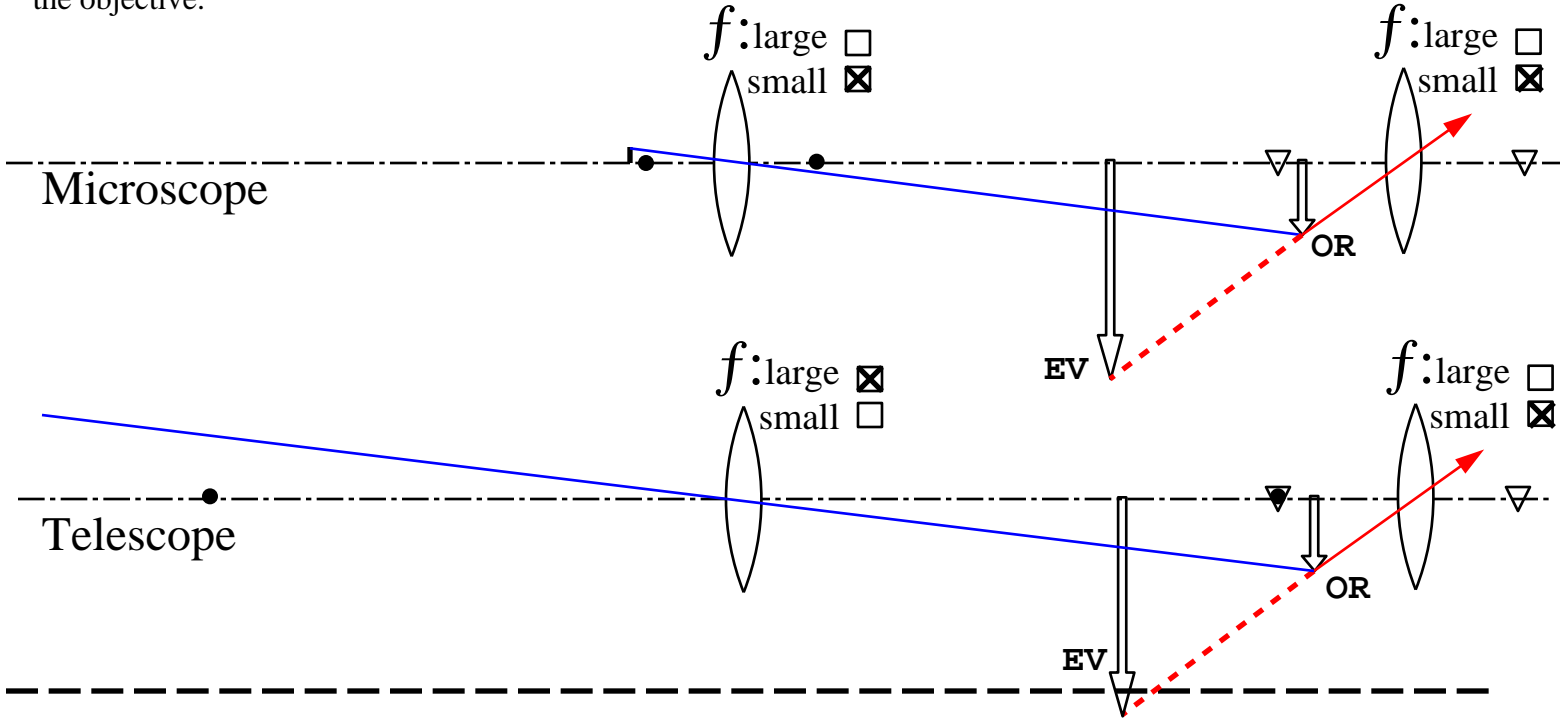
Quiz 9

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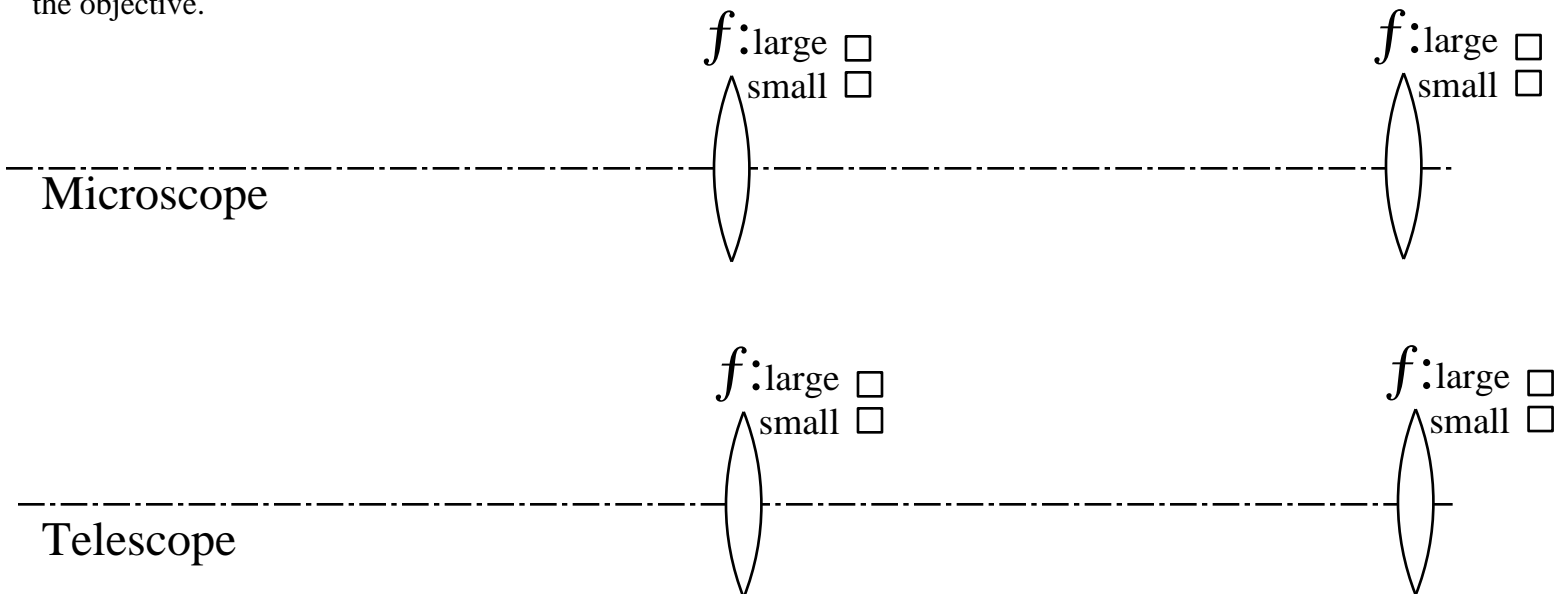
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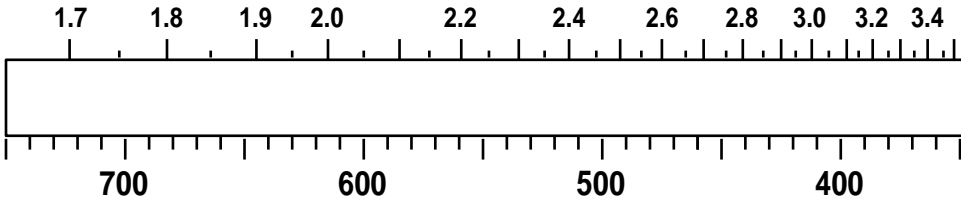
Quiz 9

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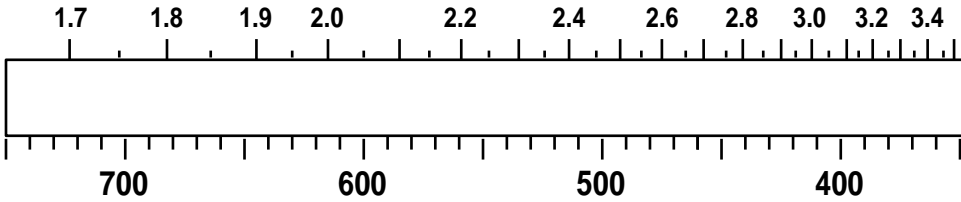


Names: _____

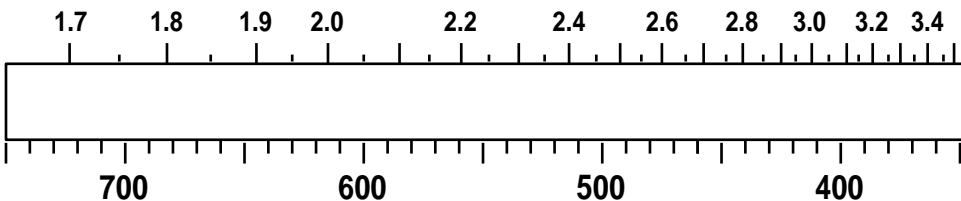
incandescent



fluorescent

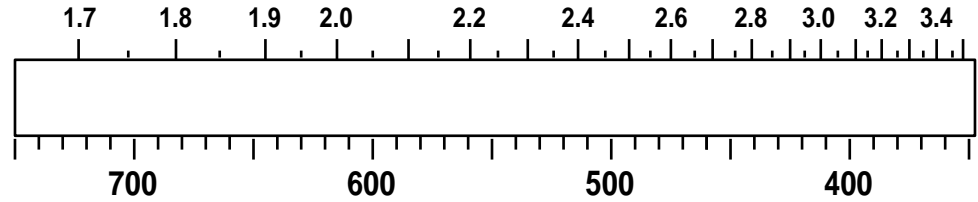


Reveal

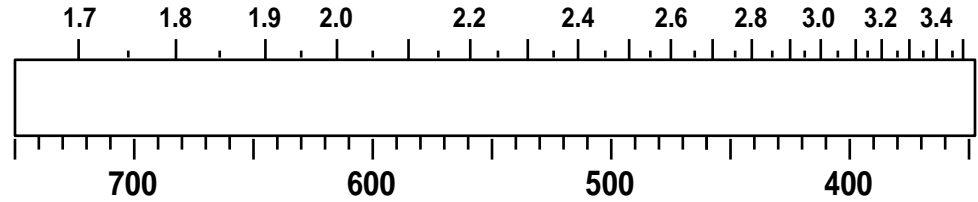


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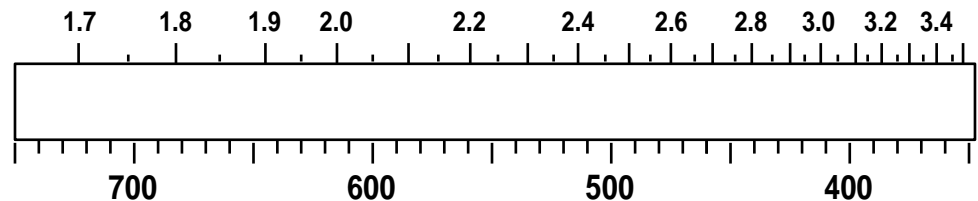
incandescent



fluorescent



Reveal



Quiz 12

A radioactive sample has half-life of 1 year. Two years after it was created an activity of 10000 Bq was measured.
What activity is expected 10 years after it was created?
How many atoms of material will remain at that time?

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What activity is expected 10 years after it was created?
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