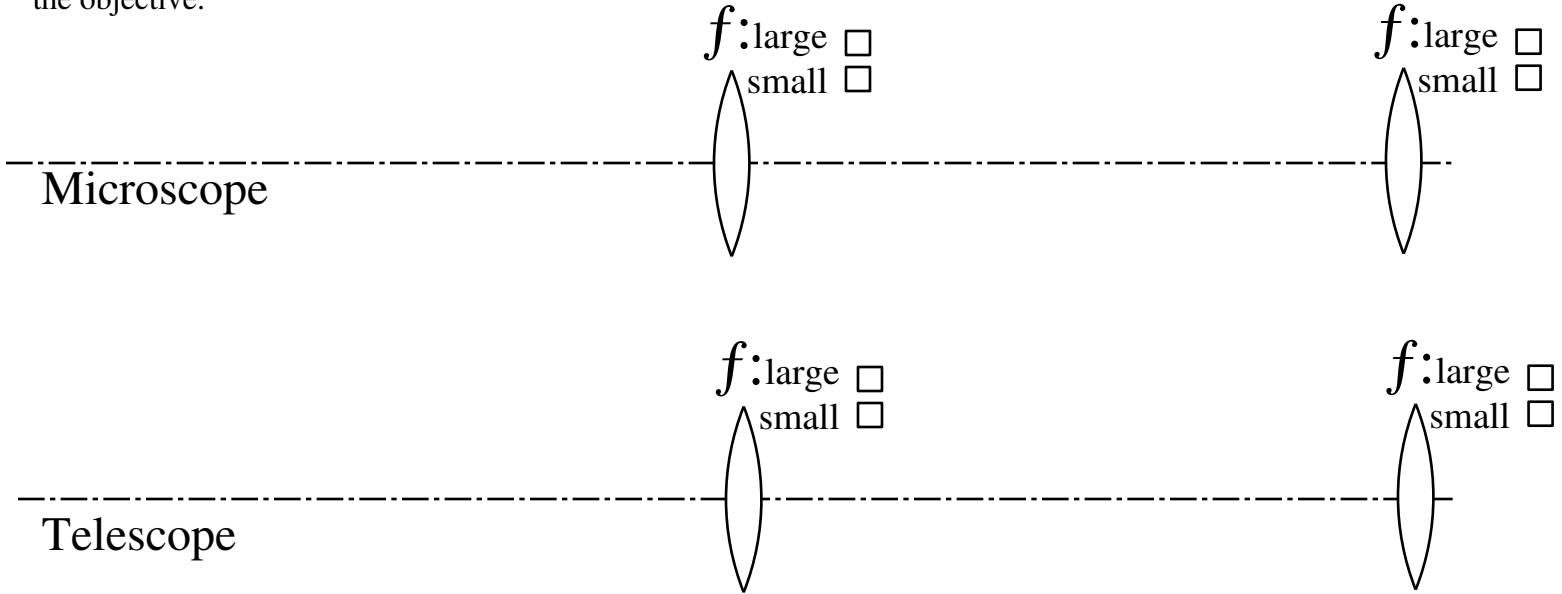


Quiz 9

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

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.

