

VIRTUAL MICROSCOPY LAB WORKSHEET

1

Go to the Virtual Microscopy Lab and select EXPLORE and then ANIMAL SLIDES. Choose the Whitefish Interphase preparation. Go to 10X magnification and draw the image you observe.

2

Go to the Virtual Microscopy Lab and select EXPLORE and then PLANT SLIDES. Select the Plant cells preparation. Go to 40X magnification and draw the image you observe.



3

Note a similarity between animal and plant cells that you observed.

4

Note one difference between animal and plant cells that you observed.

5

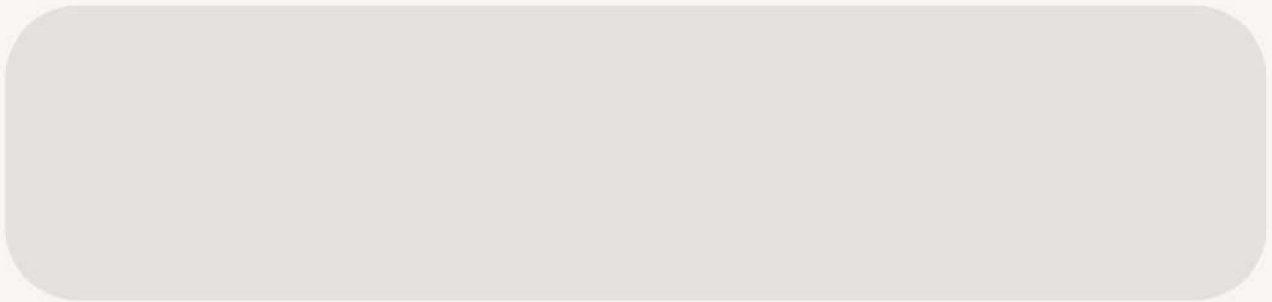
If the magnification of the eyepiece is 10X and the objective lens is 100X, what will be the total magnification of the object?



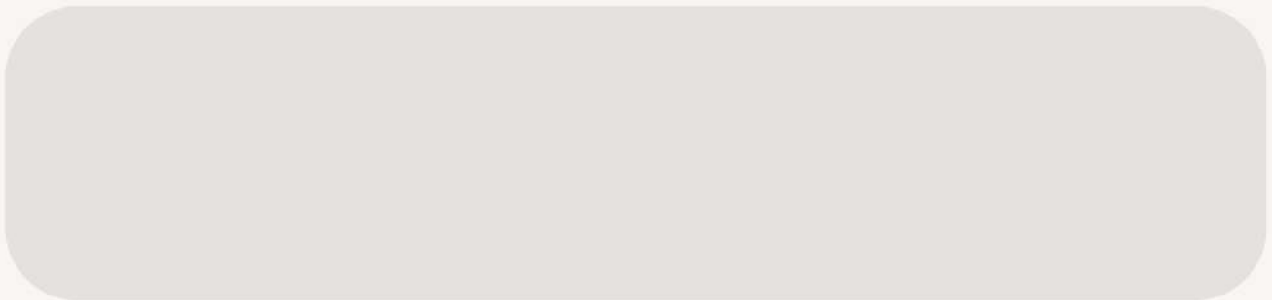
VIRTUAL LAB ON MITOSIS

Go to the Virtual Microscopy Lab. Select EXPLORE and then ANIMAL SLIDES.

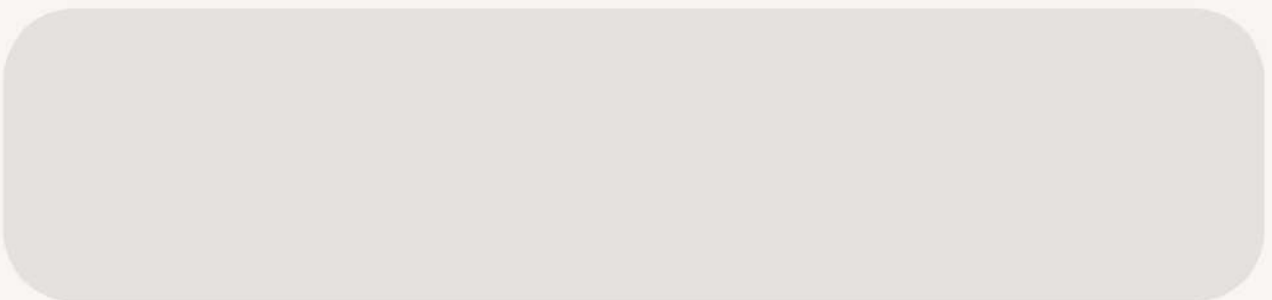
Select WHITEFISH INTERPHASE preparation and observe at 40X magnification. Draw the picture you observe. What is the shape of the chromosomes at this stage?



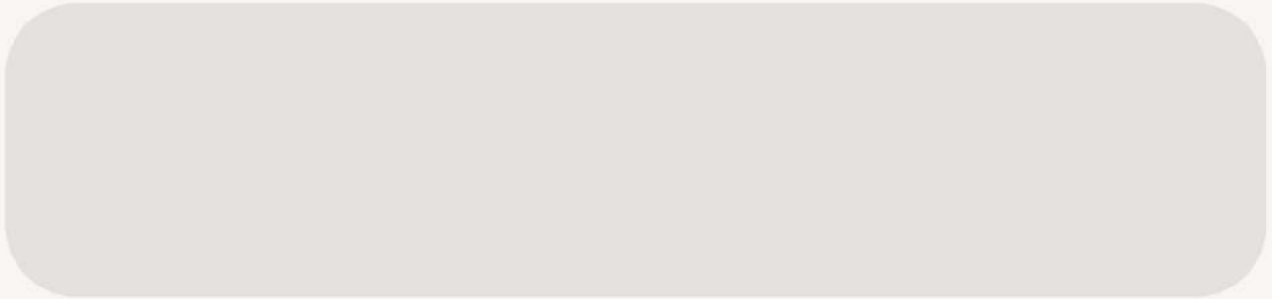
Select WHITEFISH LATE PROPHASE preparation and observe at 40X magnification. Draw the picture you observe. What is the shape of the chromosomes at this stage?



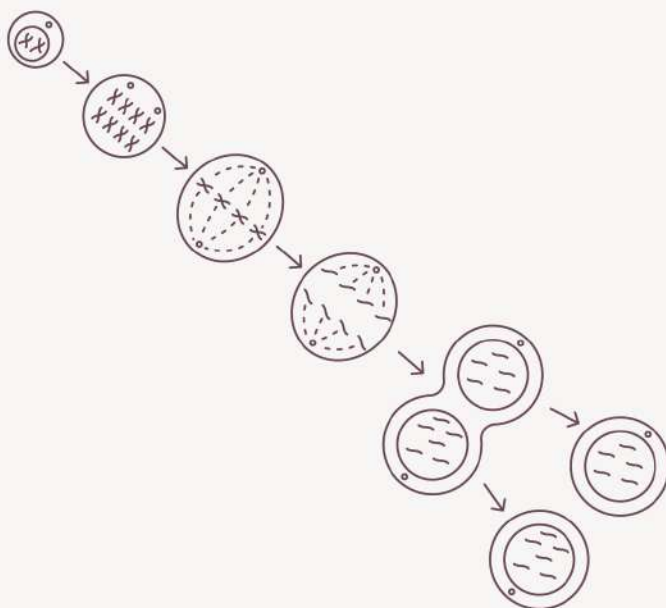
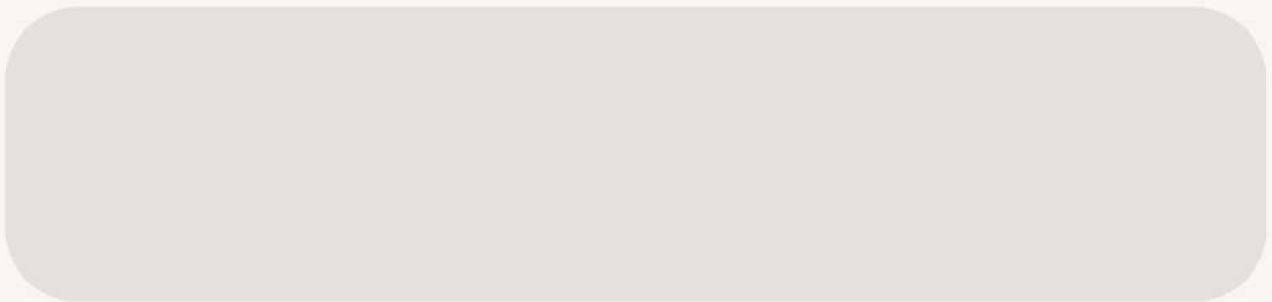
Select the WHITEFISH METAPHASE preparation and observe it at 40X magnification. Draw the picture you observe. Why is this phase the most suitable for photographing the chromosomes for their further study? (karyotype construction)



Select the WHITEFISH LATE ANAPHASE preparation and observe it at 40X magnification. Draw the picture you observe. What is the shape of the chromosomes at this stage?



Select WHITEFISH TELOPHASE AND CYTOKINESIS preparation and observe at 40X magnification. Draw the picture you observe. What is the shape of the chromosomes at this stage? What is the result of mitosis?



Virtual Microscopy
Lab

