1. Which of the phases of mitosis did you see the most and fewest examples of in your microscope examination of onion root tips?

Most: interphase

Least: telophase

1. What conclusions can you draw about the relative length of each of the stages of mitosis from your examination of onion root tips?

Interphase is the longest stage while telophase is the shortest phase

1. What onion cells would you have to look at to examine meiosis as well as mitosis?

The flower cells

1. Based on your examination of polythene chromosomes in fruit flies, what is the normal number of chromosomes present in most fruit fly cells?

6

1. How difficult was it to distinguish between two stretches of polythene chromosomes by looking at differences in their banding patterns?

Hard because the main thing differentiating them is the direction they are facing, otherwise they look very similar

1. Would you have to look at more or less asci to observe the same number of recombination events between the gene for ascospore color and the centromere if you used a gene that was closer to the centromere?

More

A picture containing text

Description automatically generatedA close up of text on a white background

Description automatically generatedA close up of a newspaper

Description automatically generated

Frequency of recombination: 0.52

Map units: 0.26