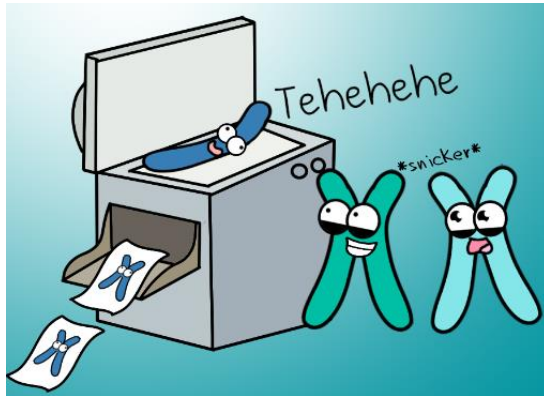


Amoeba Sisters Video Recap: *Chromosome Numbers During Cell Division*

1. View the cartoon below. Describe how this cartoon illustrates **interphase**.




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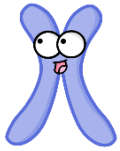
2. How many times does interphase occur before **mitosis**? \_\_\_\_\_

3. How many times does interphase occur before **meiosis**? \_\_\_\_\_

4. Draw a chromosome *before* **interphase** has occurred. Your illustration should include the labeled words: **chromatid** and **centromere**.

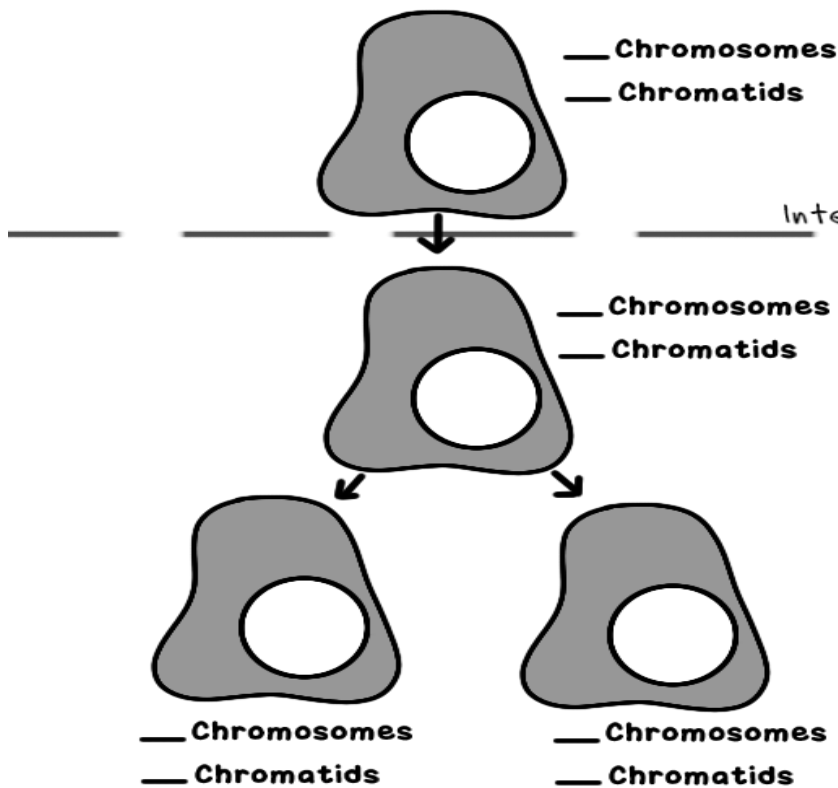
5. Draw this same chromosome *after* **interphase** has occurred. Your illustration should include the labeled words: **sister chromatid** and **centromere**.





While human body cells have 46 chromosomes, **fruit fly body cells each contain 8 chromosomes and fruit fly gametes contain 4 chromosomes.** To demonstrate your understanding of chromosome numbers, **please apply your knowledge to fill out this chart for fruit fly cells.** You will need to (1) illustrate the number of chromosomes in each fruit fly cell and (2) write the number of chromosomes and chromatids in each fruit fly cell on all of the blank lines.

# Mitosis



# Meiosis

