



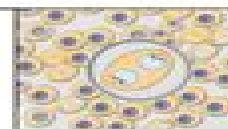
Student Exploration: Cell Division, Part 2

Vocabulary: cell division, centriole, centromere, chromatid, chromatin, chromosome, cytokinesis, DNA, interphase, mitosis

Activity B: Duration of phases

Get the Gizmo ready:

- Click **Reset**.
- Select the **TABLE** tab.



Question: What is the relative duration of each phase of the cell cycle?

1. **Collect data:** Set the **Cycle Length** to 10 hours and click **Play**. Click **Pause** when the maximum number of cells has been reached. On the **TABLE** tab, click **Record data**.

Record the number of cells in each phase of the cell cycle in the table below. Then click **Play**, wait for a while, and click **Record data** again. Repeat this process until you have recorded four sets of results, and then find the average number of cells in each phase.

Trial	Interphase	Prophase	Metaphase	Anaphase	Telophase	Cytokinesis
1	81	10	4	2	2	1
2	80	10	3	3	1	3
3	78	9	4	2	3	4
4	79	11	3	2	3	2
Avg.	79.5	10	3.5	2.25	2.25	2.5

2. **Analyze:** Which phase of the cell cycle is longest? ___Interphase_____ Shortest? ___cytokinesis_____

Explain your answers: _On the graph it is visible that interphase has the highest average number of cells ___in it so that would mean that it would take longer than the rest of the phases for it to finish._____

3. **Calculate:** You can use your data to estimate the duration of each phase of the cell cycle. For example, if 8% of the cells were in prophase and the cell cycle was 10 hours long, then prophase would last 8% of 10 hours, or 0.8 hours (48 minutes).

Use percentages to estimate the duration of each phase of the cell cycle. Show your work.

Interphase: _____477_____minutes.

Prophase: _____60_____minutes

Metaphase: _____21_____minutes

Student Exploration Cell Division Answer Key

JS Bruner



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