



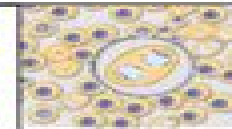
## Student Exploration: Cell Division

### Activity B:

#### Duration of phases

Get the Gizmo ready:

- 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     | 77         | 10       | 3         | 3        | 3         | 4           |
| 2     | 78         | 11       | 3         | 1        | 2         | 5           |
| 3     | 80         | 10       | 3         | 0        | 4         | 3           |
| 4     | 80         | 10       | 4         | 2        | 3         | 1           |
| Avg.  | 78.75      | 10.25    | 3.25      | 1.5      | 3         | 3.25        |

2. **Analyze:** Which phase of the cell cycle is longest? **Interphase** Shortest? **Metaphase**

**Why:** Cells spend lots of time in interphase, so if we see a large number of them in interphase at any given moment, such as this one. Cells spend less time in metaphase, so the chance that we see many cells in that phase is very small.

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:**  $78.75 \times 10 = 7.9$  hours

**Prophase:**  $0.1025 \times 10 = 1.025$  hours

**Metaphase:**  $0.0325 \times 10 = 3.25$  hours



# Student Exploration Cell Division Answer

**Vera M. Kolb**



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