



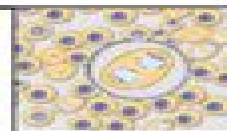
Student Exploration: Cell Division

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



Answer Key To Student Exploration Cell Division

B Lingard



Answer Key To Student Exploration Cell Division:

Fuel your quest for knowledge with is thought-provoking masterpiece, **Answer Key To Student Exploration Cell Division** . This educational ebook, conveniently sized in PDF (PDF Size: *), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons. .

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Table of Contents Answer Key To Student Exploration Cell Division

1. Understanding the eBook Answer Key To Student Exploration Cell Division
 - The Rise of Digital Reading Answer Key To Student Exploration Cell Division
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key To Student Exploration Cell Division
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Key To Student Exploration Cell Division
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key To Student Exploration Cell Division
 - Personalized Recommendations
 - Answer Key To Student Exploration Cell Division User Reviews and Ratings
 - Answer Key To Student Exploration Cell Division and Bestseller Lists
5. Accessing Answer Key To Student Exploration Cell Division Free and Paid eBooks
 - Answer Key To Student Exploration Cell Division Public Domain eBooks
 - Answer Key To Student Exploration Cell Division eBook Subscription Services
 - Answer Key To Student Exploration Cell Division Budget-Friendly Options

6. Navigating Answer Key To Student Exploration Cell Division eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key To Student Exploration Cell Division Compatibility with Devices
 - Answer Key To Student Exploration Cell Division Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key To Student Exploration Cell Division
 - Highlighting and Note-Taking Answer Key To Student Exploration Cell Division
 - Interactive Elements Answer Key To Student Exploration Cell Division
8. Staying Engaged with Answer Key To Student Exploration Cell Division
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key To Student Exploration Cell Division
9. Balancing eBooks and Physical Books Answer Key To Student Exploration Cell Division
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key To Student Exploration Cell Division
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key To Student Exploration Cell Division
 - Setting Reading Goals Answer Key To Student Exploration Cell Division
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key To Student Exploration Cell Division
 - Fact-Checking eBook Content of Answer Key To Student Exploration Cell Division
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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