

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

## How Cells Divide: Mitosis

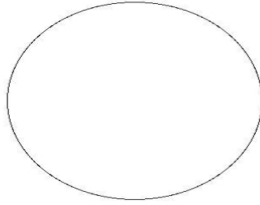
Worksheet to accompany PBS Nova Animation  
<http://www.pbs.org/wgbh/nova/baby/divide.html>

### Step 1 – Before We Split

1. What is the end product of mitosis?
2. How many chromosomes are in the human genome?
3. How many chromosomes are in a sperm or egg cell

Draw the cell as it appears during this stage. Label the following parts:

- Nuclear envelope
- Nucleolus
- Chromatin
- Centrioles



### Step 2 – Interphase

4. What replicates during this time?
5. Why are chromosomes not visible during this stage?

Draw the cell as it appears during this stage. Label the following parts:

- Nuclear envelope
- Nucleolus
- Chromatin
- Centrioles

