

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

## How Cells Divide: Meiosis

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

### Step 1 – Before We Split

1. How many chromosomes are in the human genome?
2. How many chromosomes are in a sperm or egg cell
3. For each of the following diagrams, draw the chromosomes of the mother in one color and the chromosomes of the father in a different color.

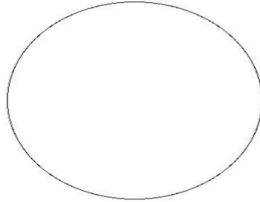
Key:

**Chromosomes from father = [ ]**

**Chromosomes from mother = [ ]**

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

- Nuclear envelope
- Nucleolus
- Chromatin
- Centrioles



### Step 2 – Interphase I

4. What replicates during this time?

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

- Nuclear envelope
- Nucleolus
- Chromatin
- Centrioles

