

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.

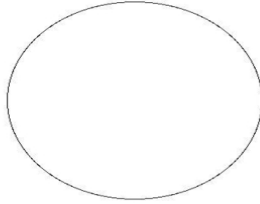
Key:

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

