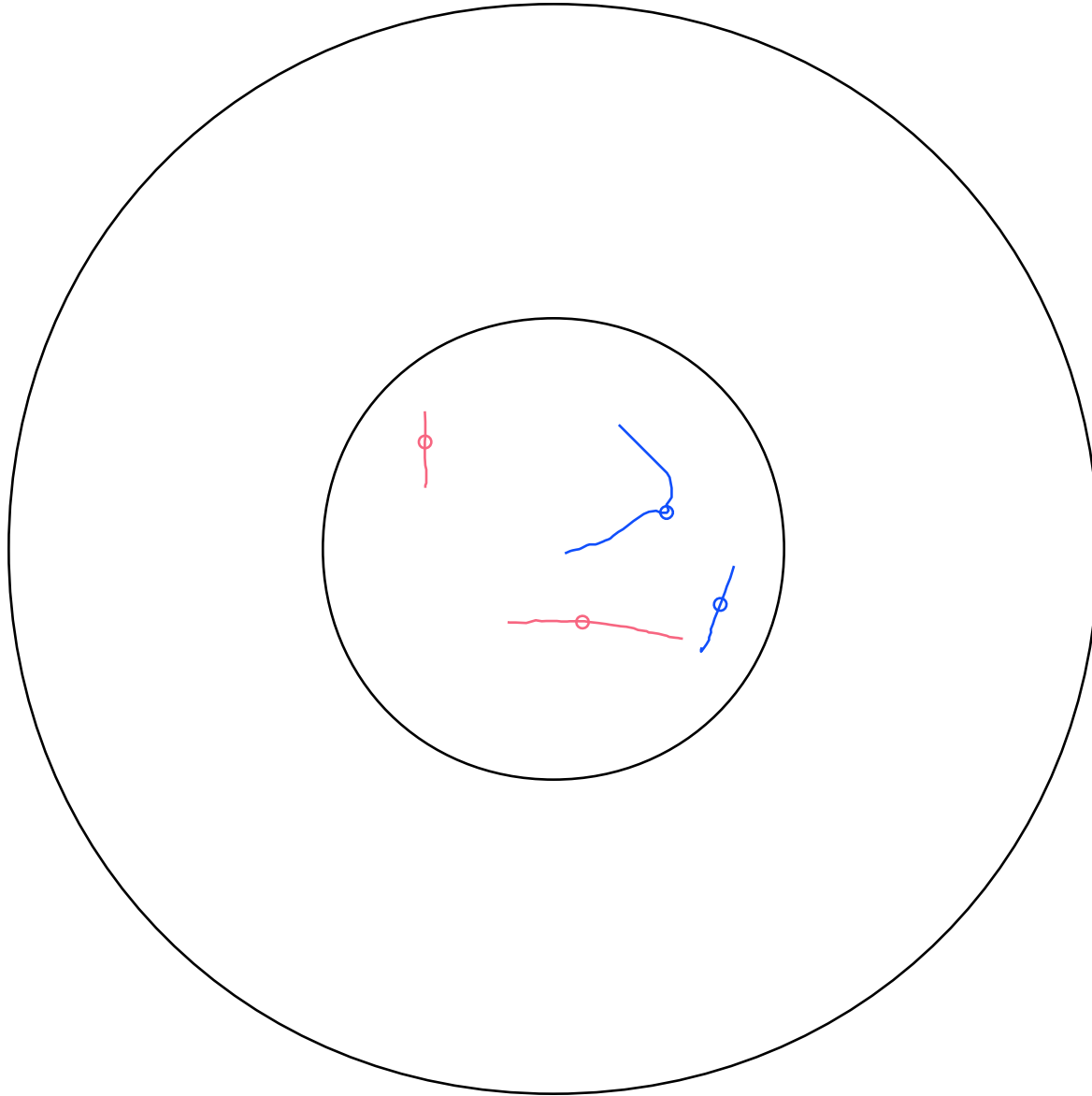


Mitosis/Meiosis Exercise

- If you do not see thumbnails on the left, click the page view button. This can also be done on some PDF readers (Adobe, Foxit) by pressing the F4 key.
- Viewing might be easier if you maximize the window (button on upper right).
- Click on the page icon to view that slide.

G_1 Interphase

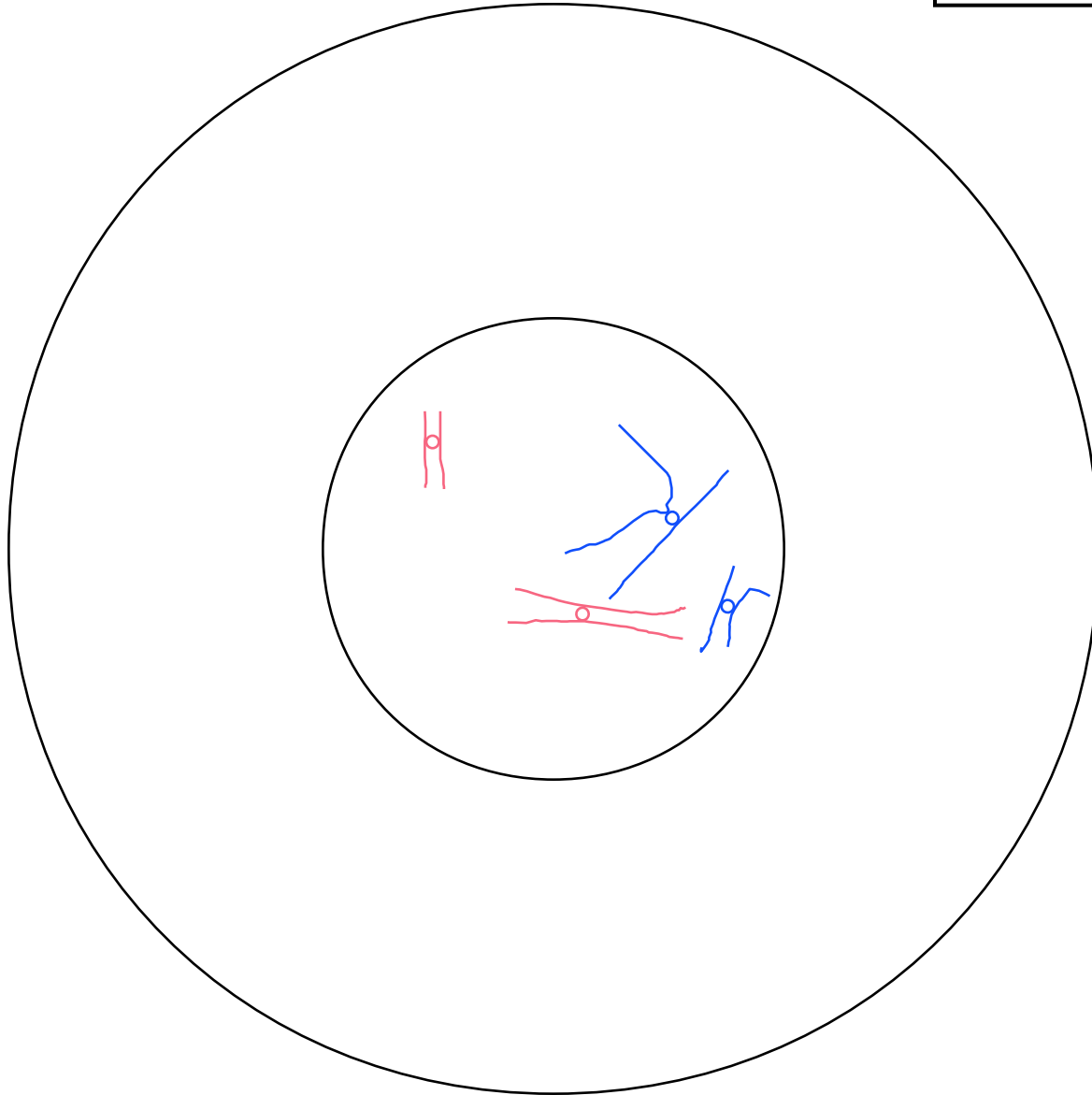
This cell has 4 chromosomes and 4 chromatids. Count them. A human cell in this phase has 46 chromosomes and 46 chromatids.



G₂ Interphase

This cell
Human cell

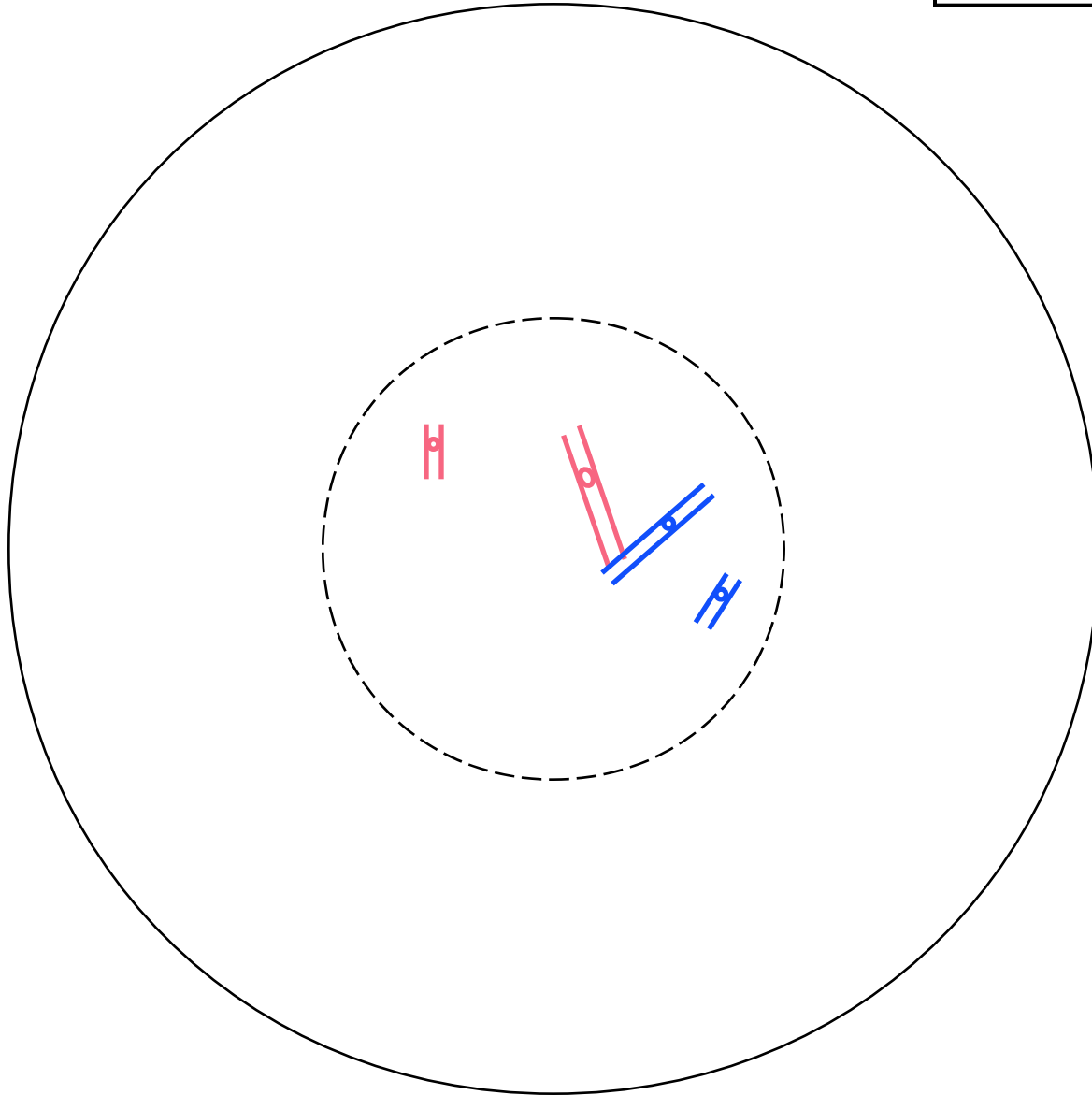
Chromosomes	Chromatids
4	8
46	92



Prophase

This cell
Human cell

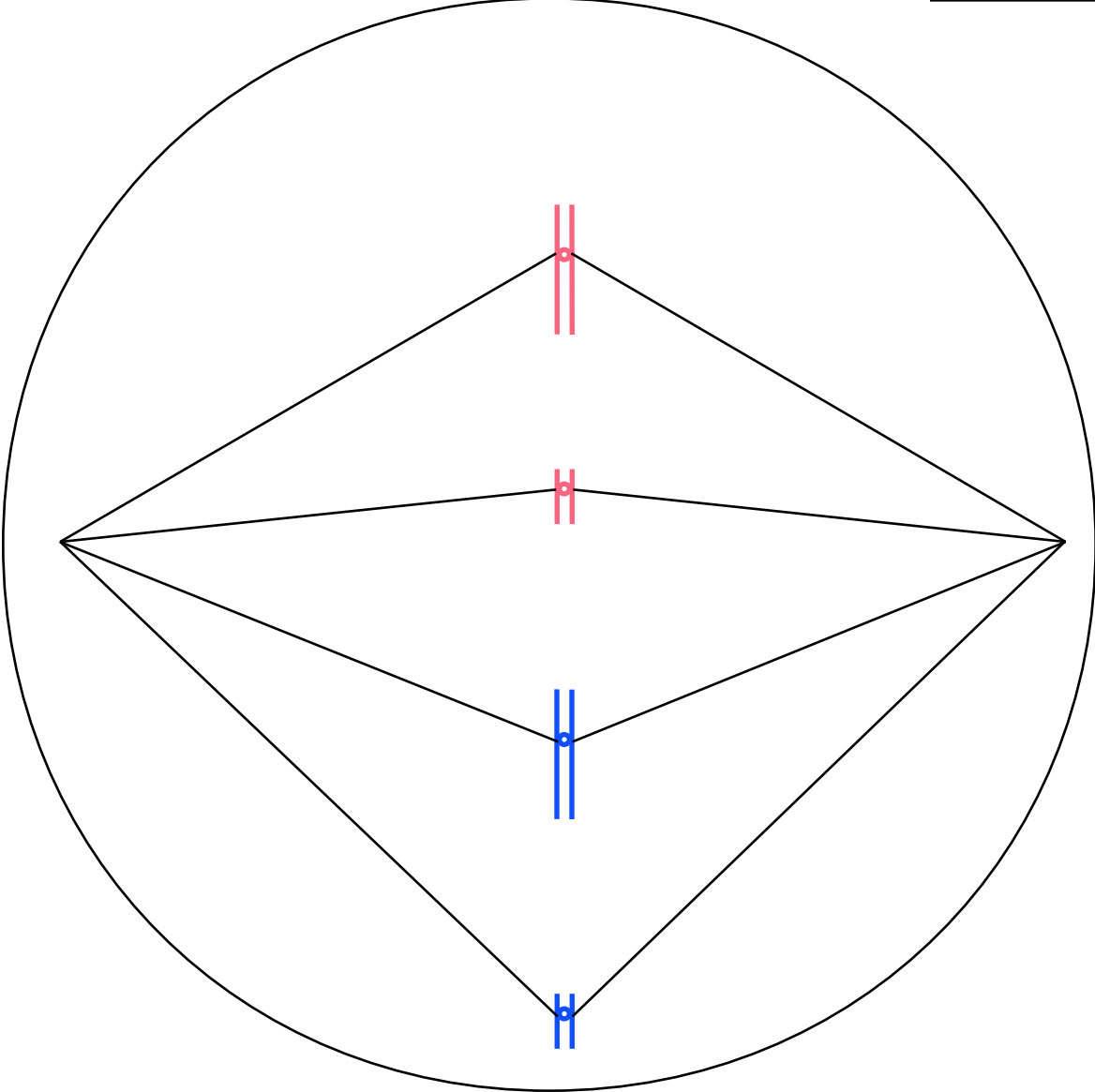
Chromosomes	Chromatids
4	8
46	92



Metaphase

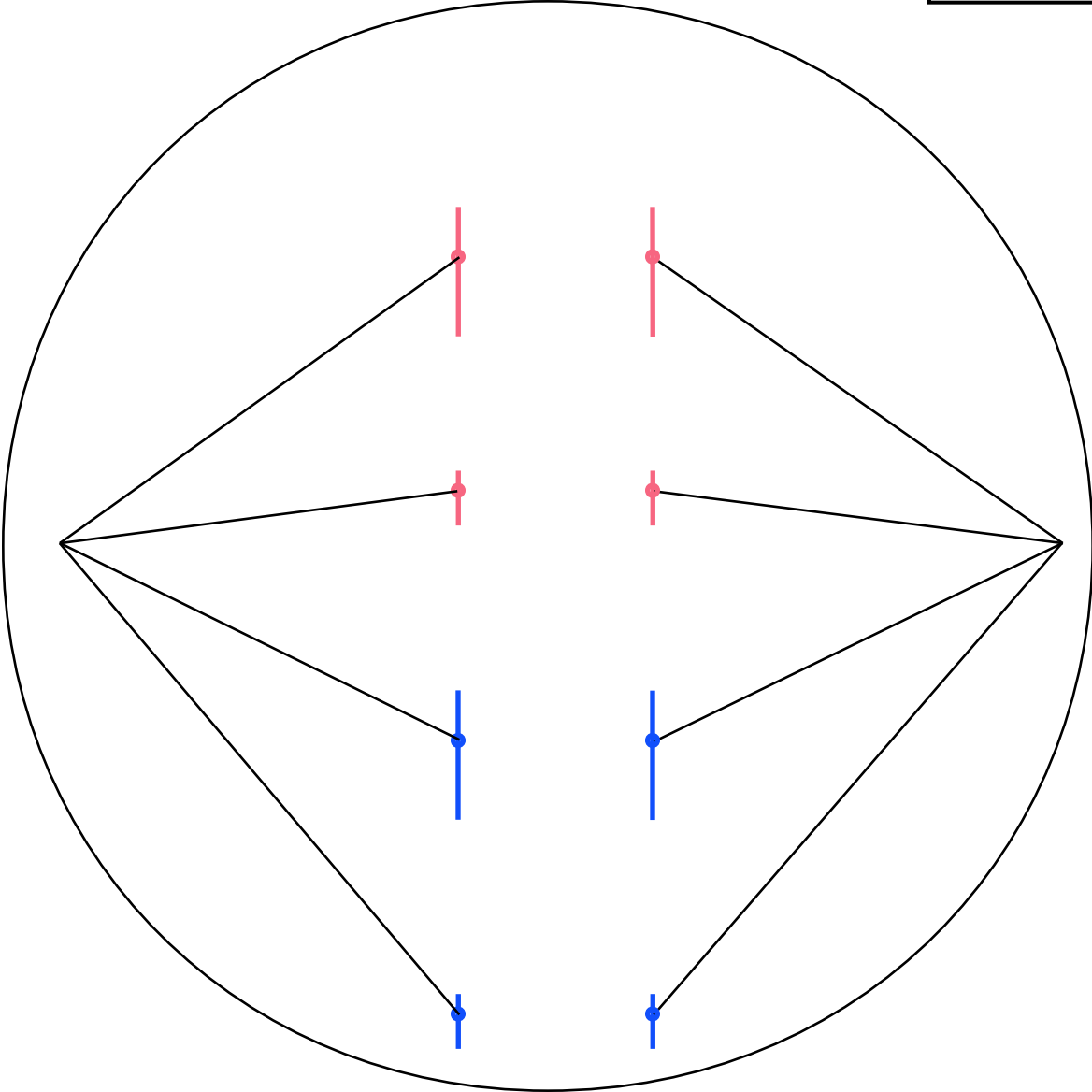
This cell
Human cell

Chromosomes	Chromatids
4	8
46	92



Anaphase

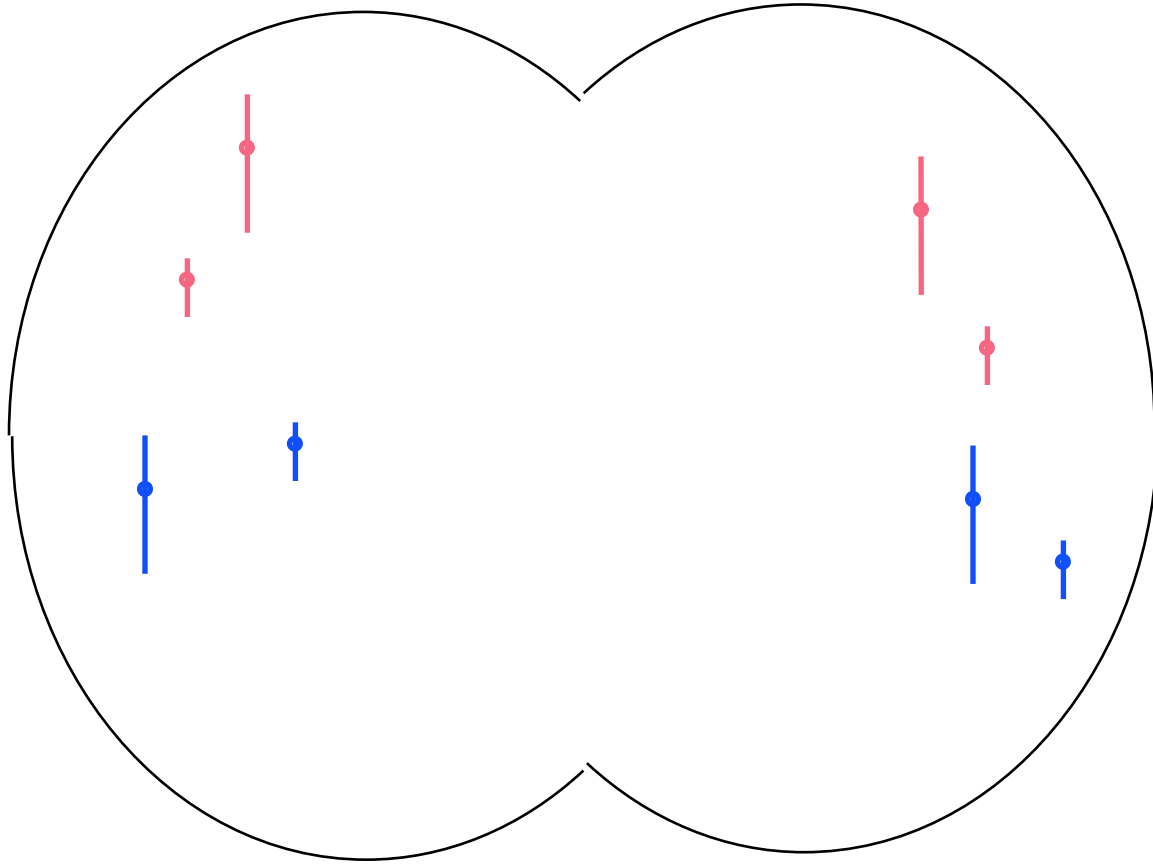
	Chromosomes	Chromatids
This cell	8	8
Human cell	92	92



Telophase

This cell
Human cell

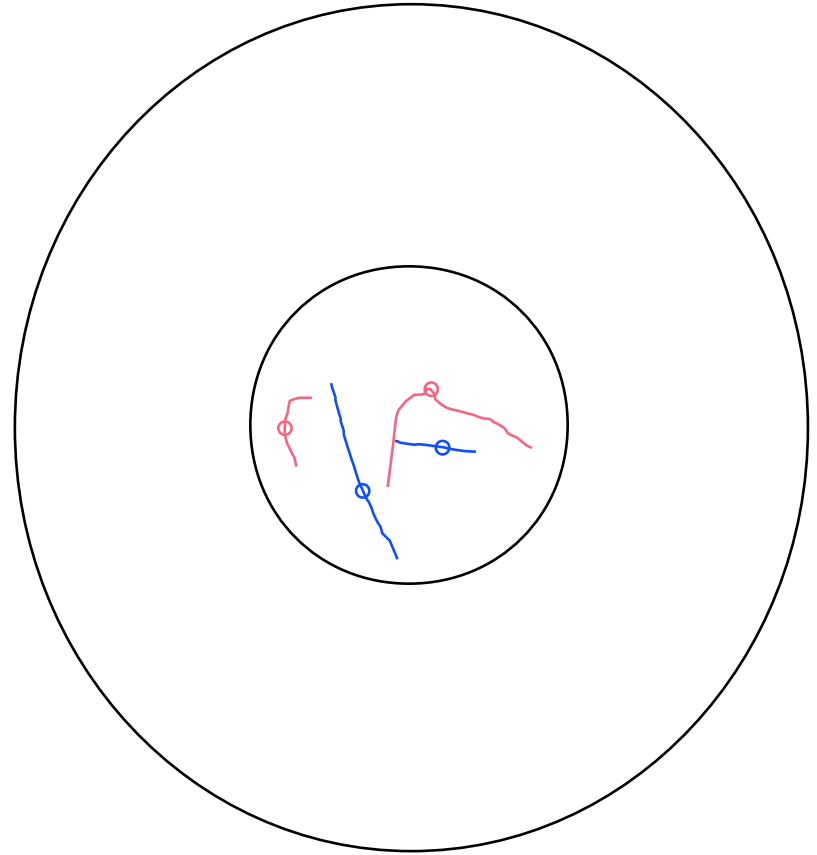
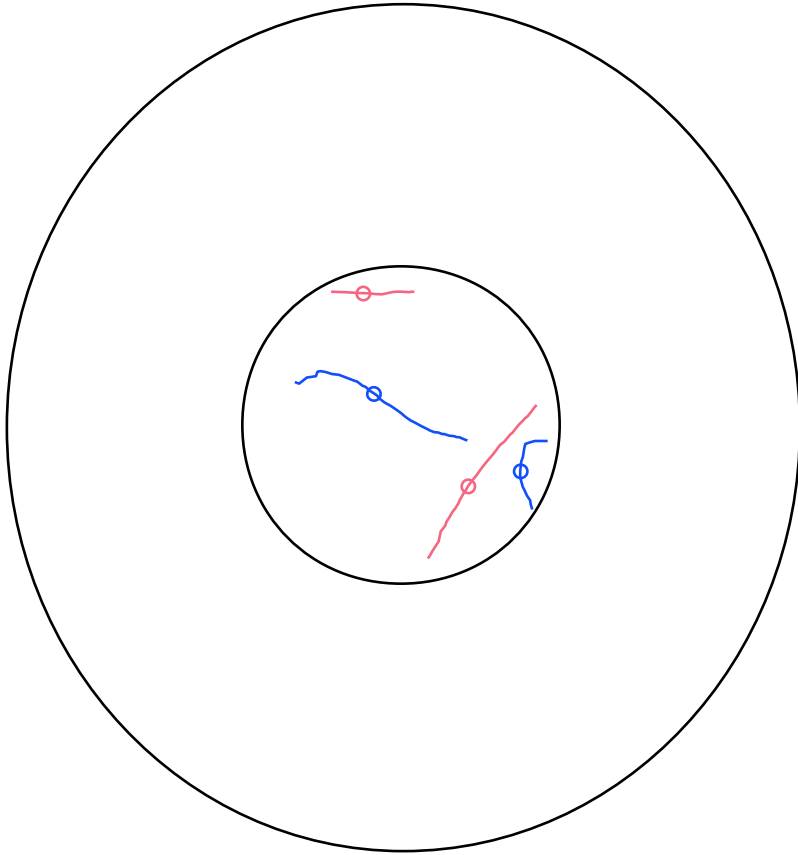
Chromosomes	Chromatids
8	8
92	92



G_1 Interphase

This cell
Human cell

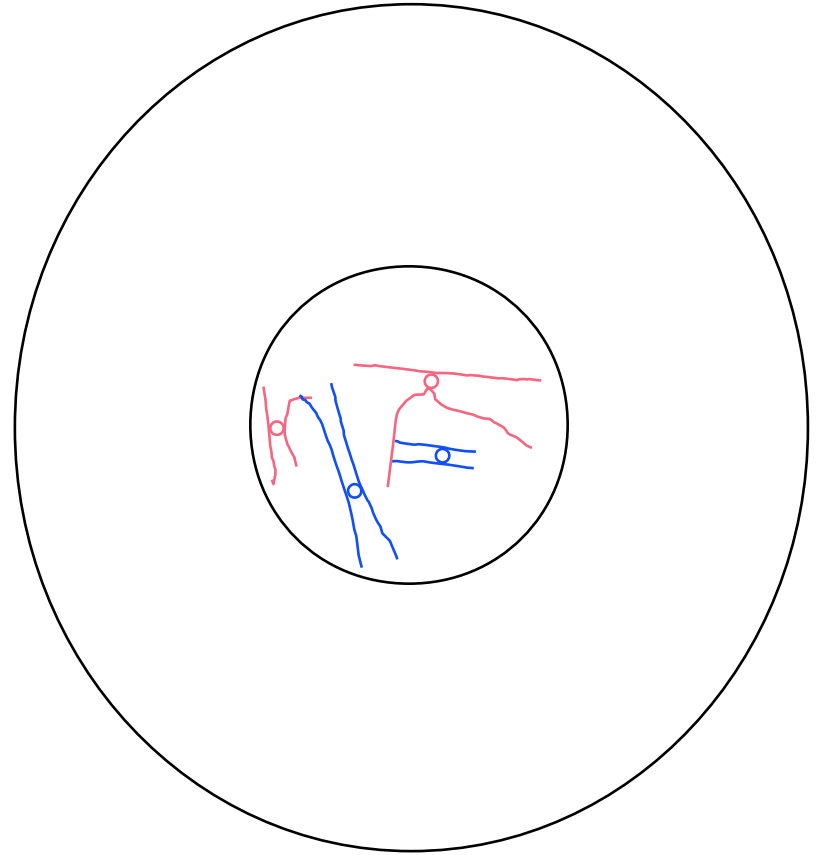
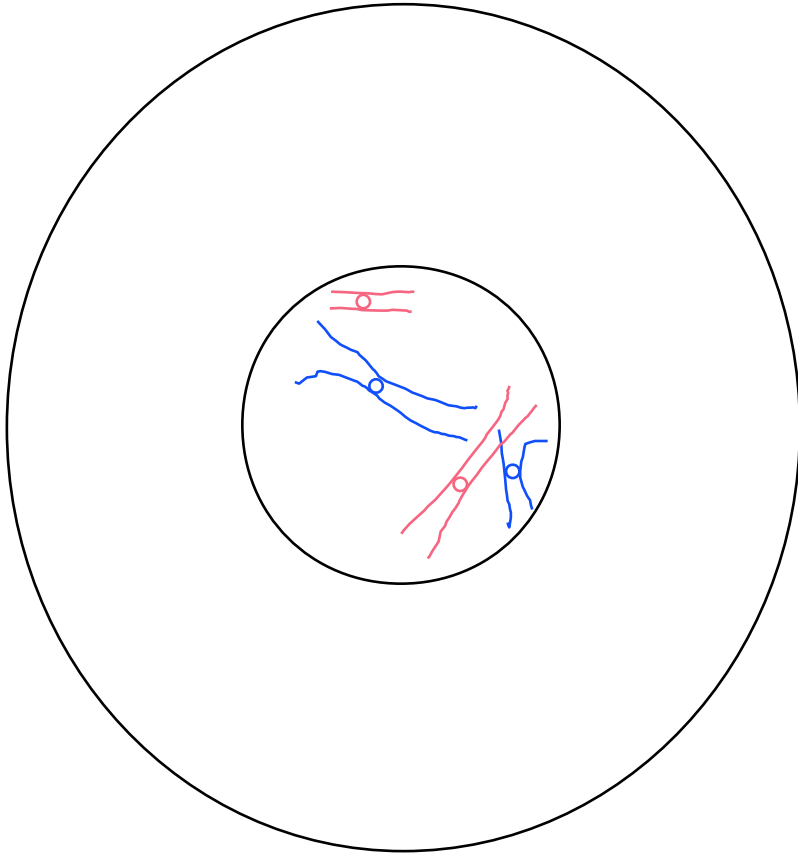
Chromosomes	Chromatids
4	4
46	46



G₂ Interphase

This cell
Human cell

Chromosomes	Chromatids
4	8
46	92

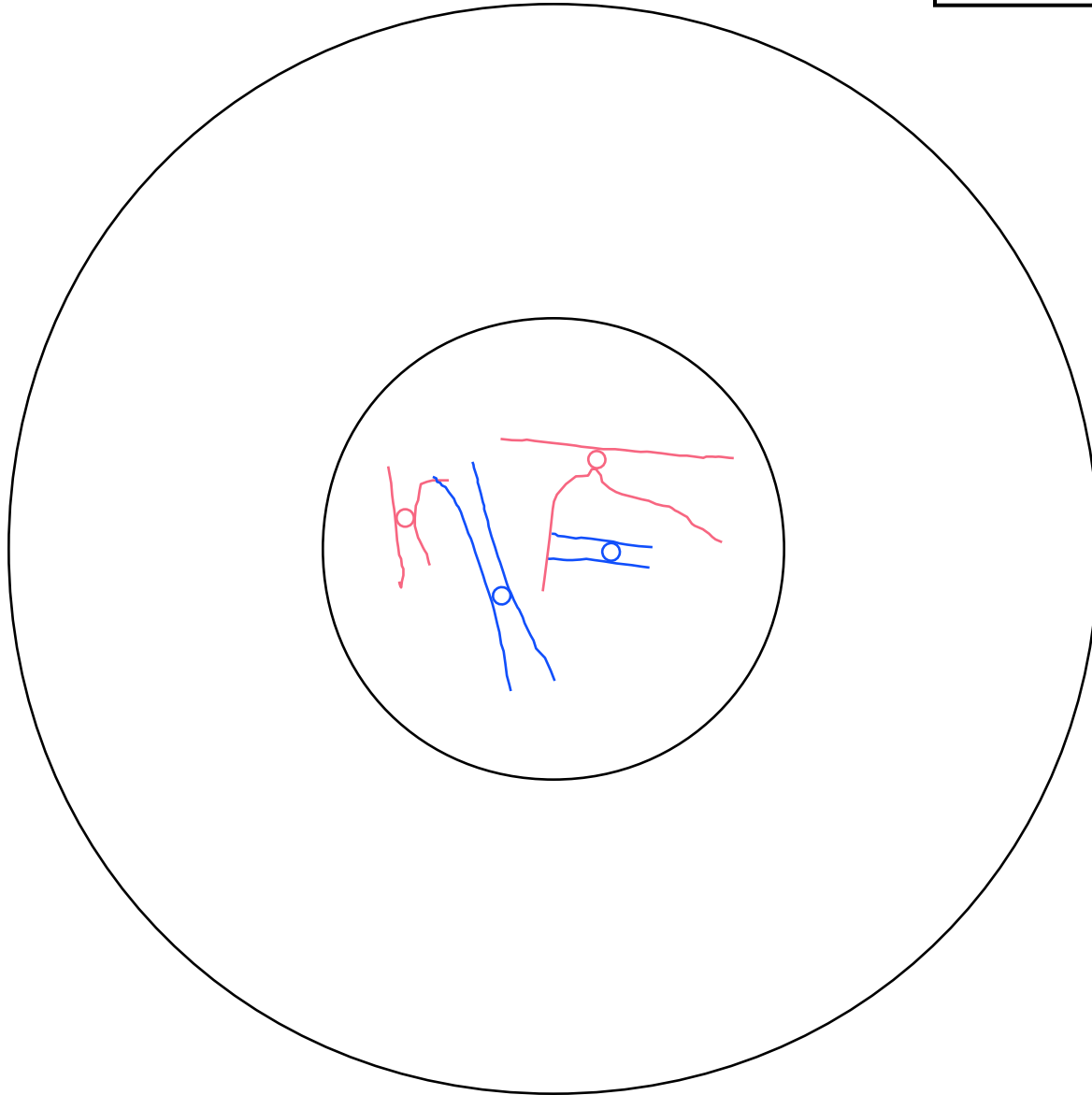


Meiosis

G₂ Interphase

This cell
Human cell

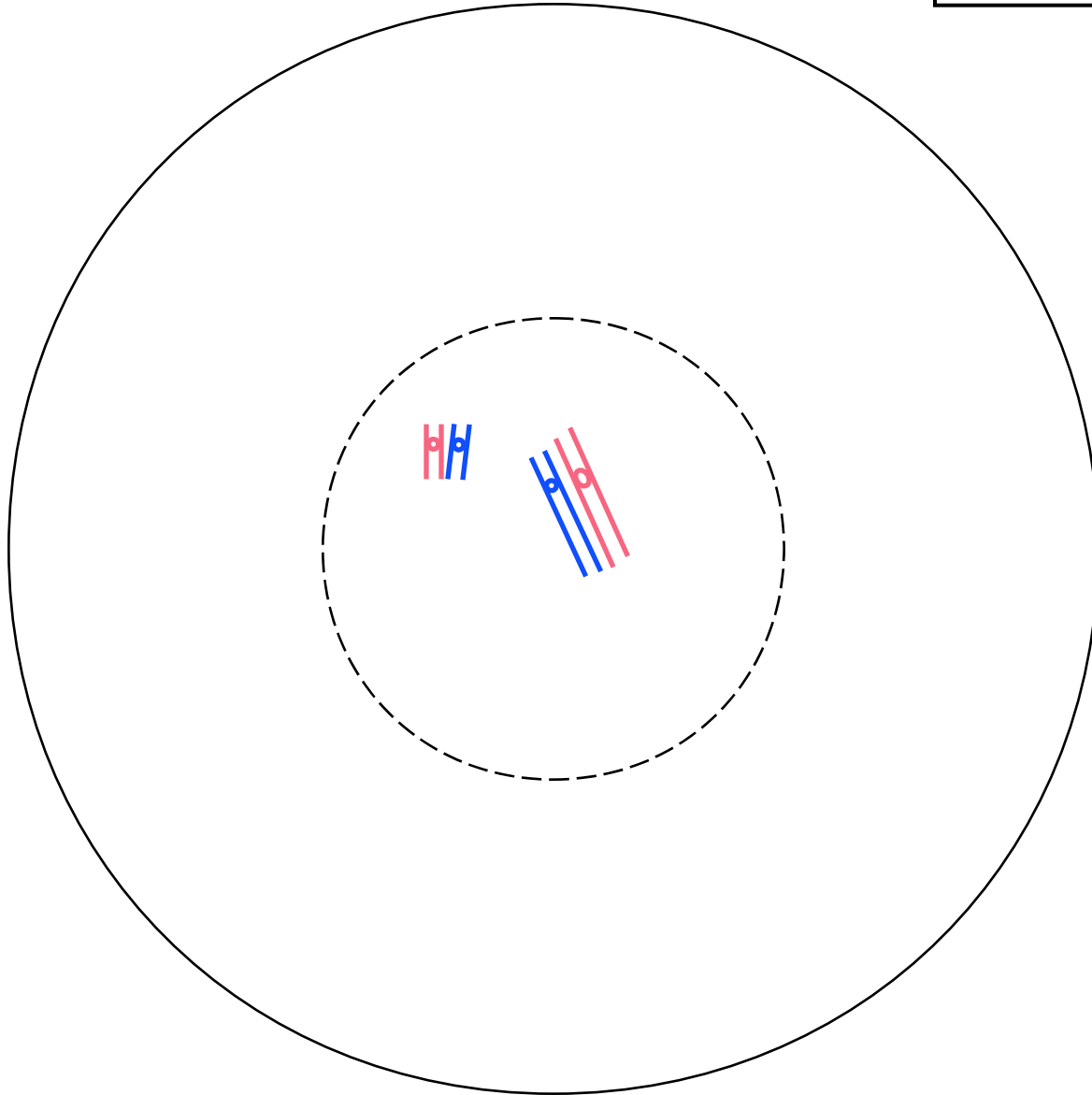
Chromosomes	Chromatids
4	8
46	92



Prophase I

This cell
Human cell

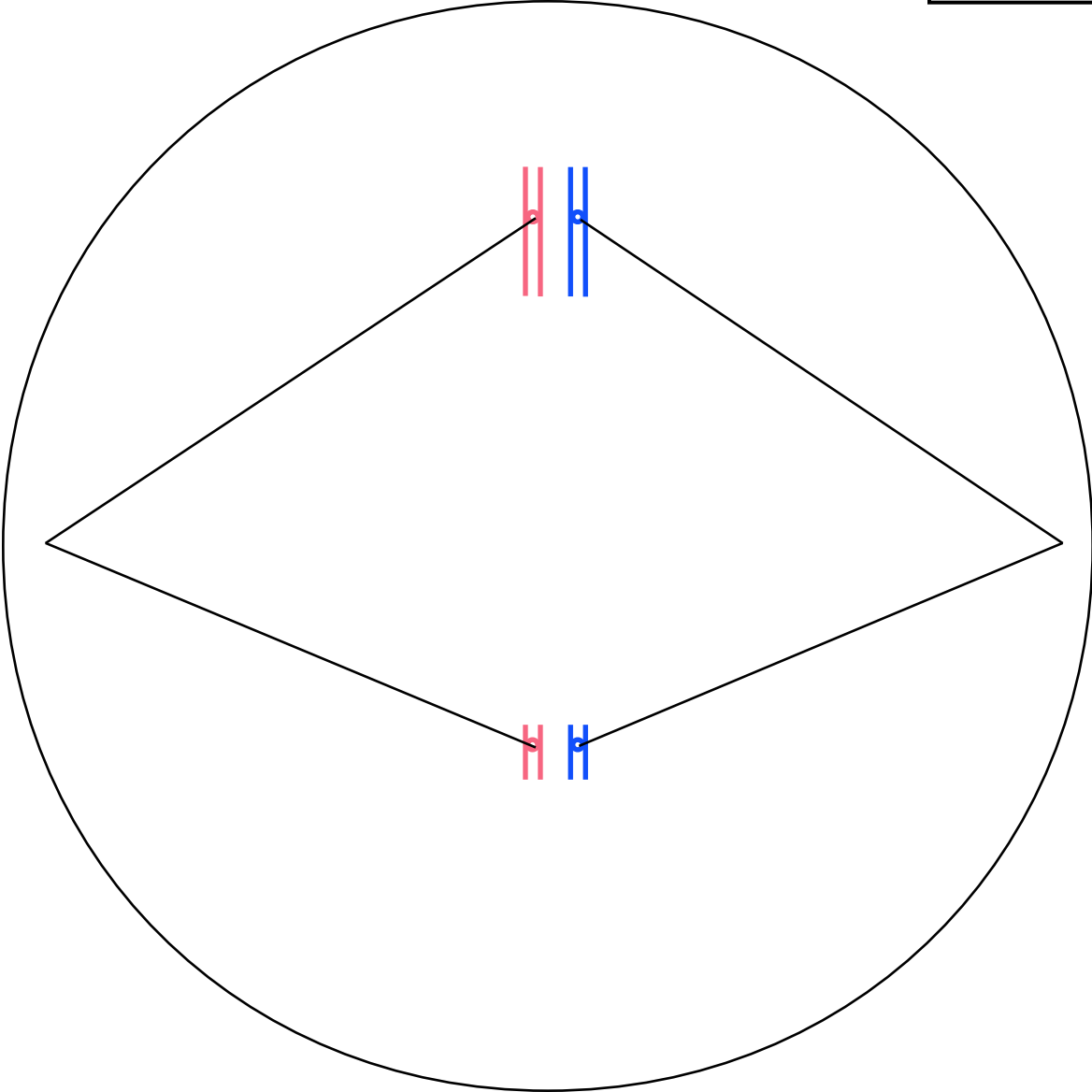
Chromosomes	Chromatids
4	8
46	92



Metaphase I - Alternative 1

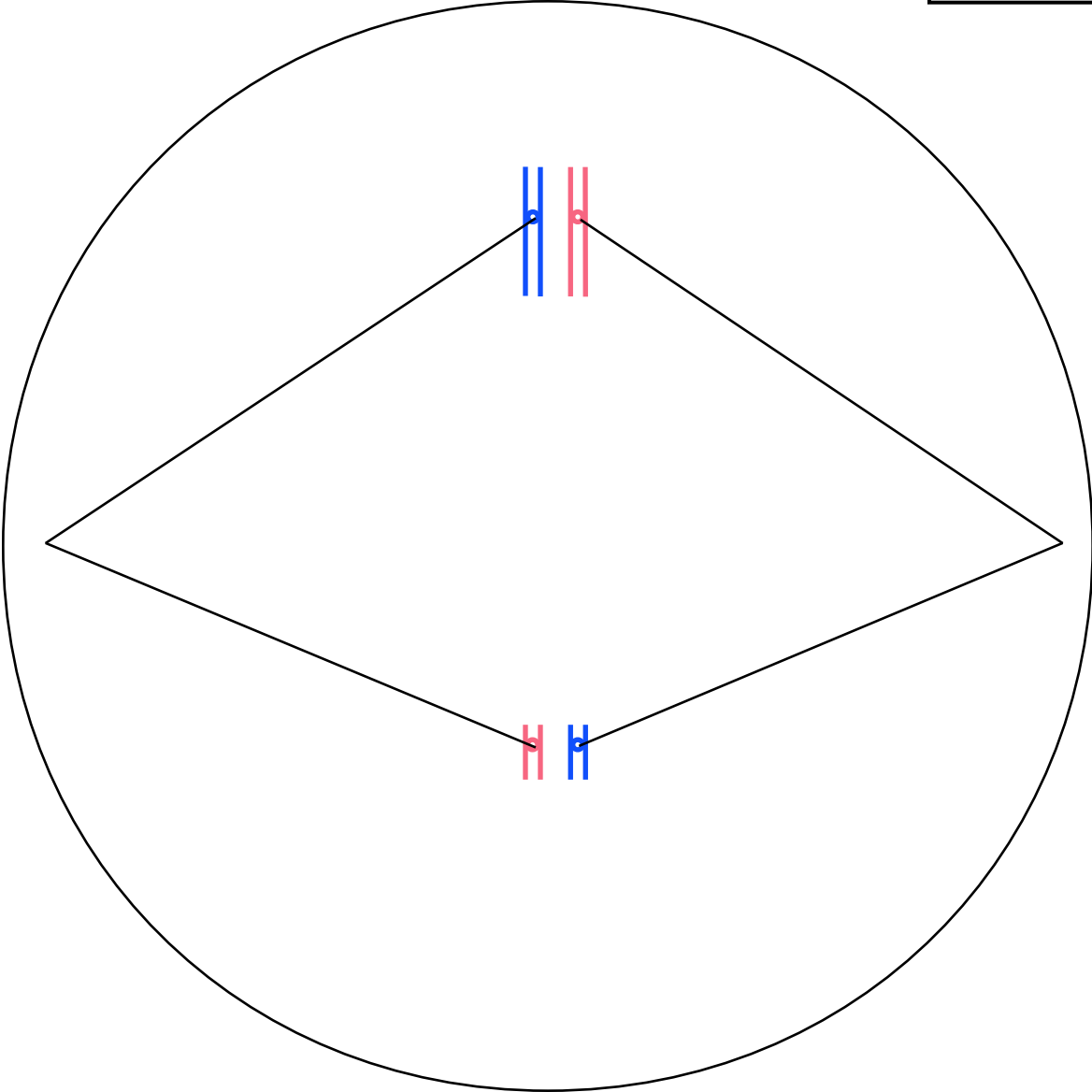
This cell
Human cell

Chromosomes	Chromatids
4	8
46	92



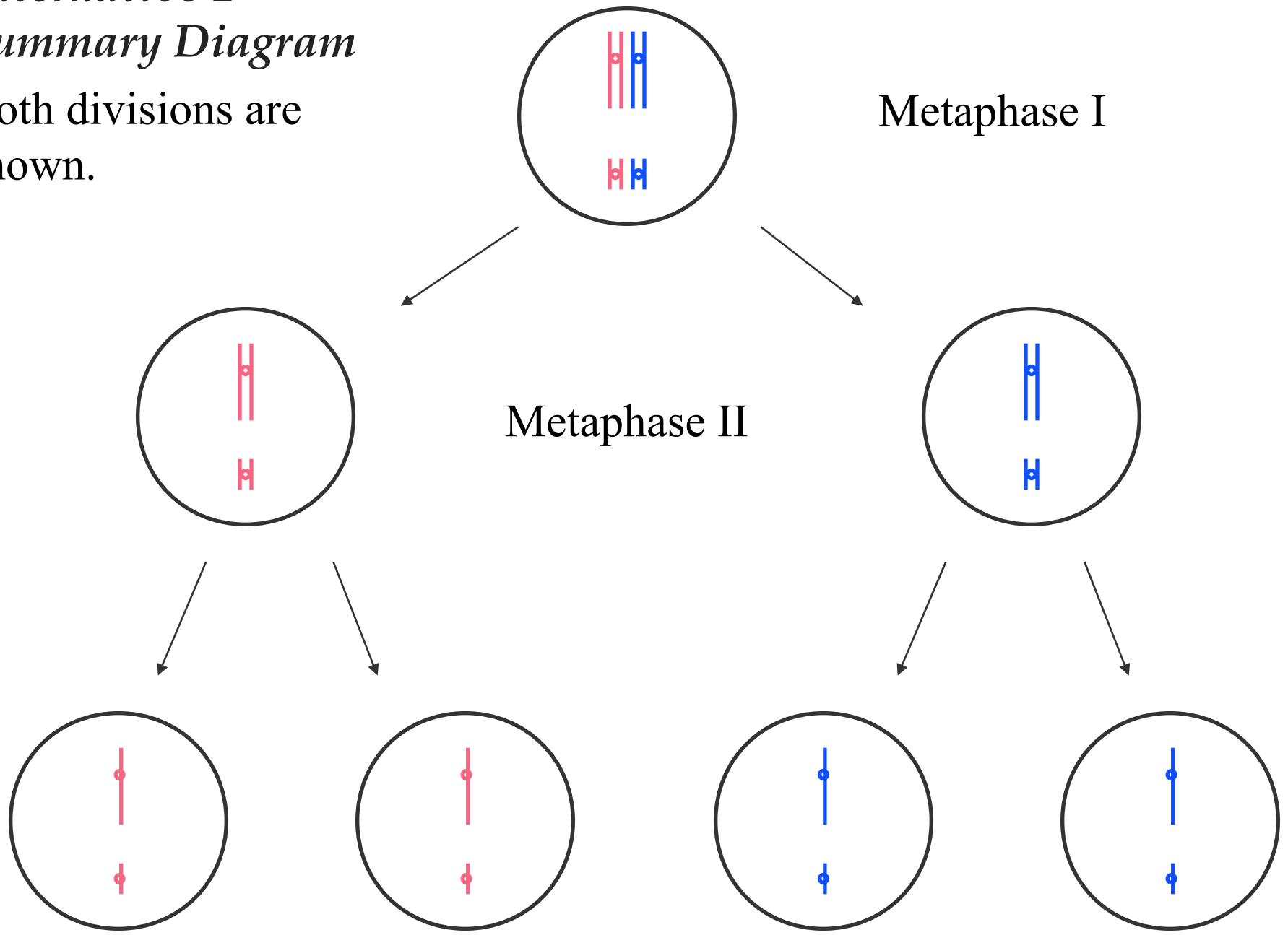
Metaphase I - Alternative 2

	Chromosomes	Chromatids
This cell	4	8
Human cell	46	92



Alternative 1
Summary Diagram

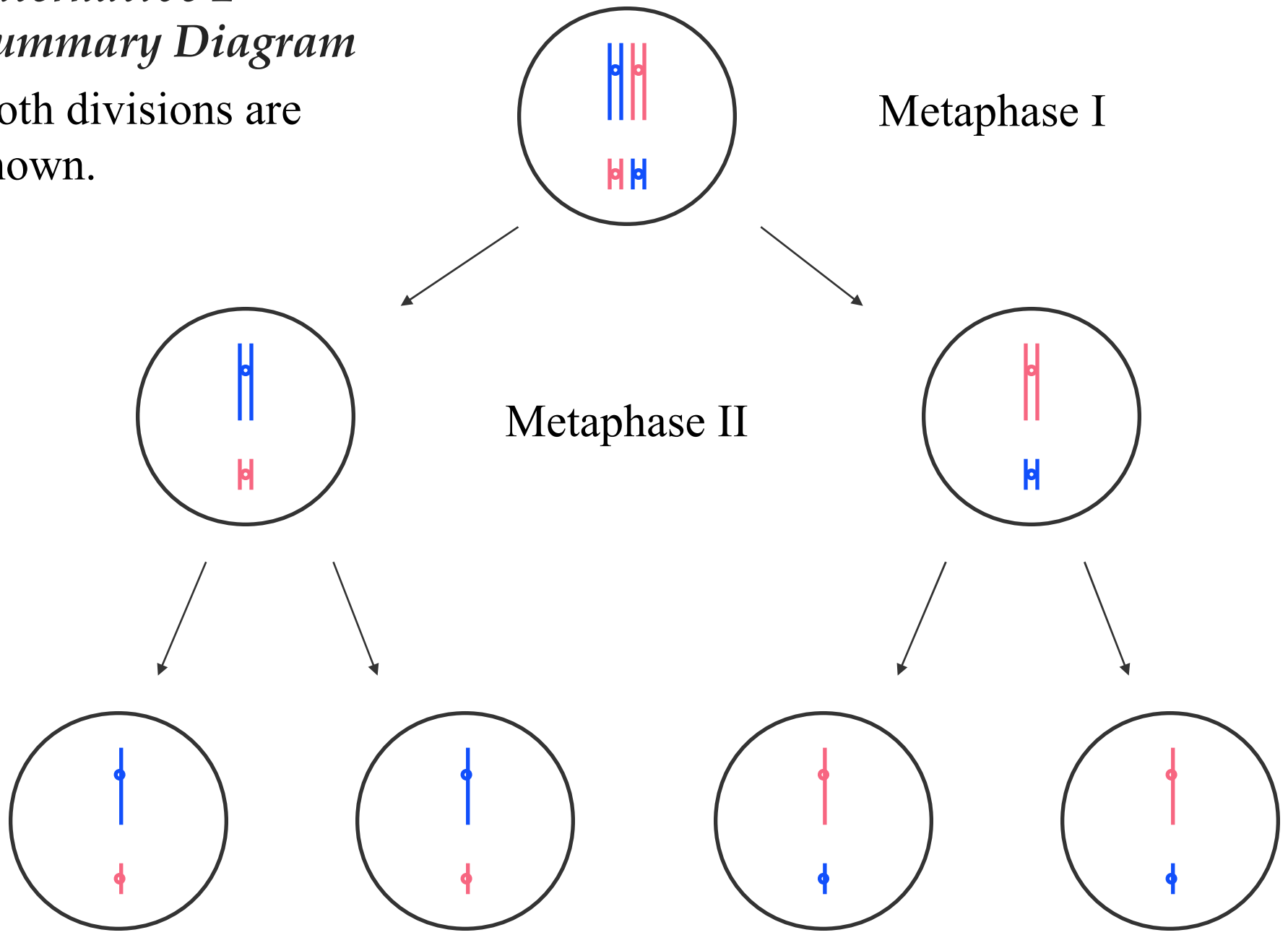
Both divisions are shown.



Gametes (sperm or egg and polar bodies)

Alternative 2
Summary Diagram

Both divisions are shown.

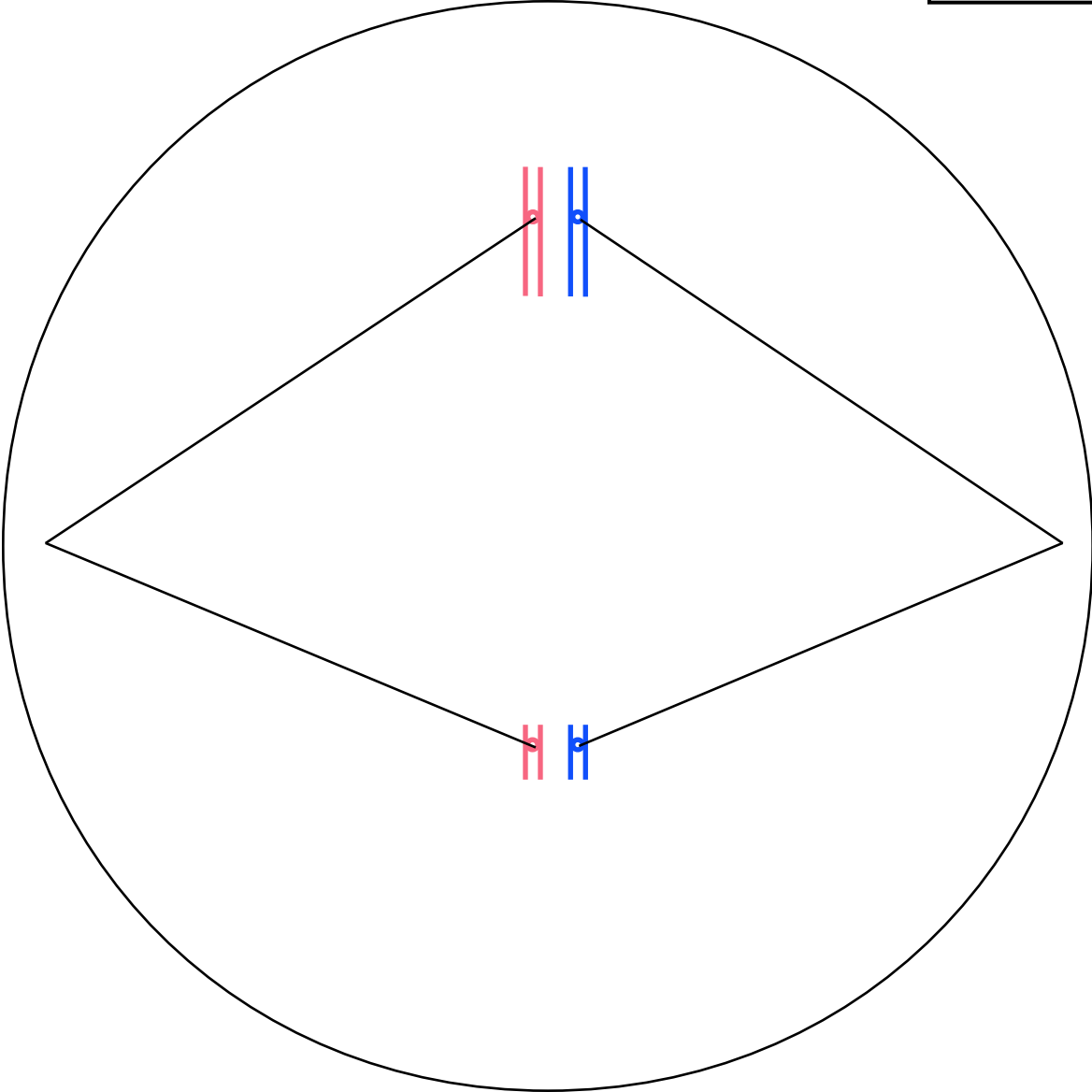


Gametes (sperm or egg and polar bodies)

Metaphase I - Alternative 1

This cell
Human cell

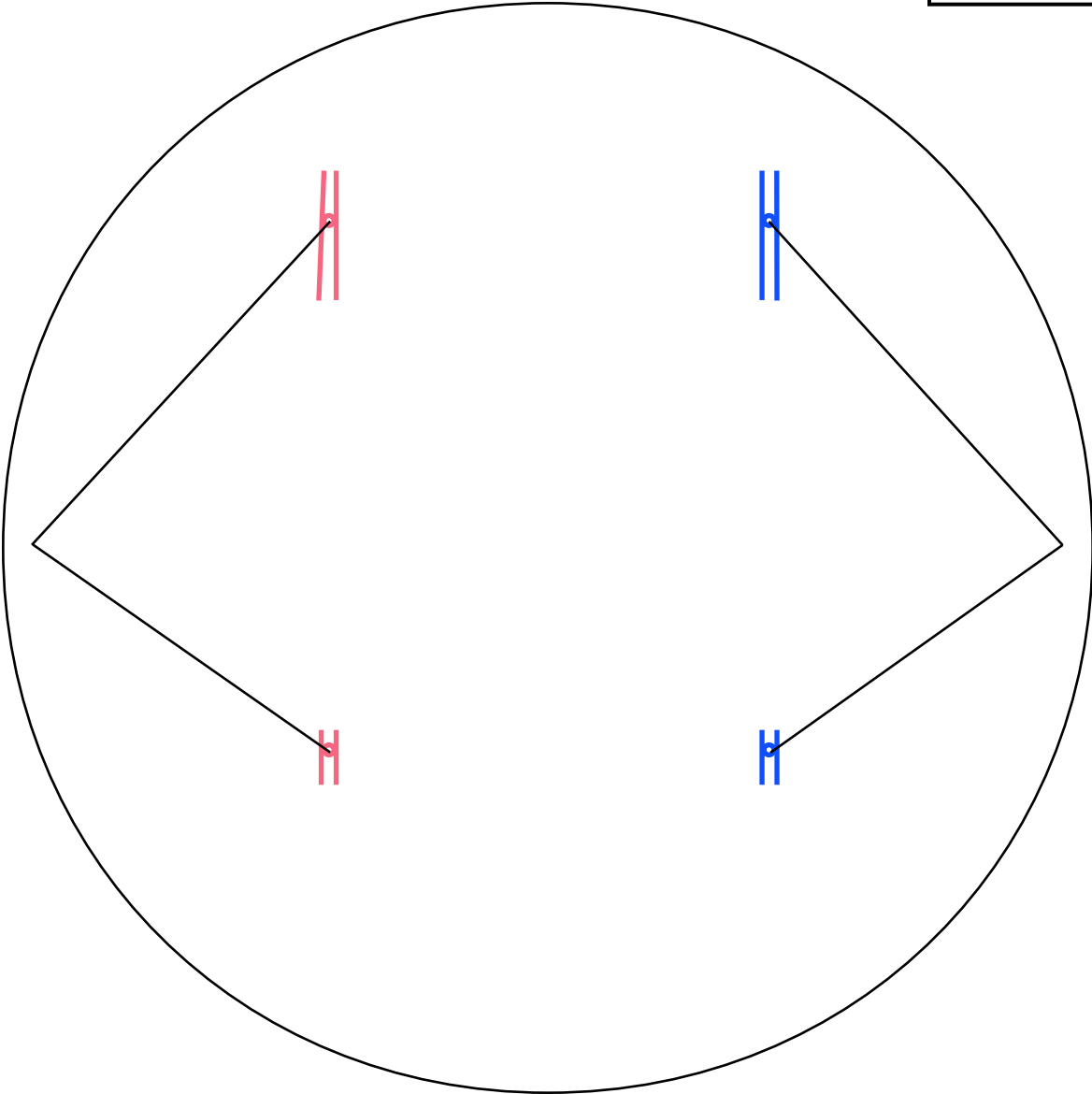
Chromosomes	Chromatids
4	8
46	92



Anaphase I - Alternative 1

This cell
Human cell

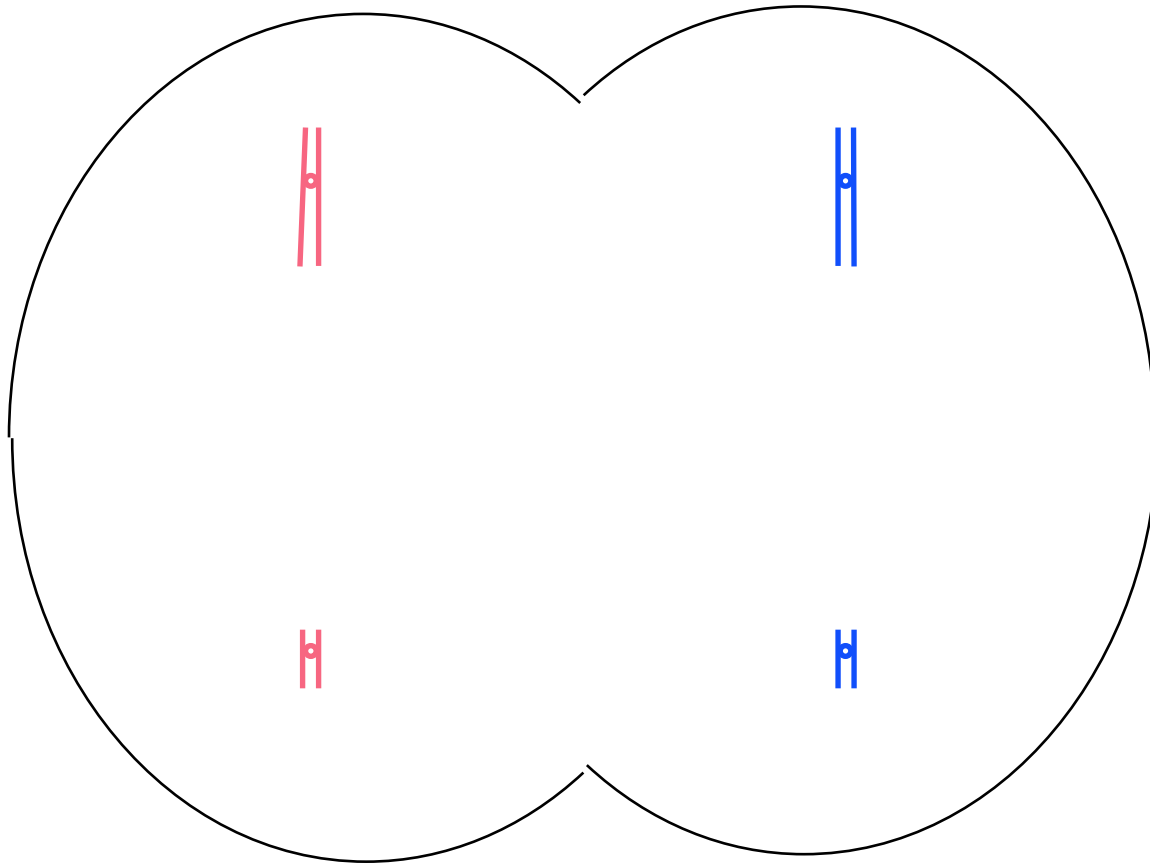
Chromosomes	Chromatids
4	8
46	92



Telophase I - Alternative 1

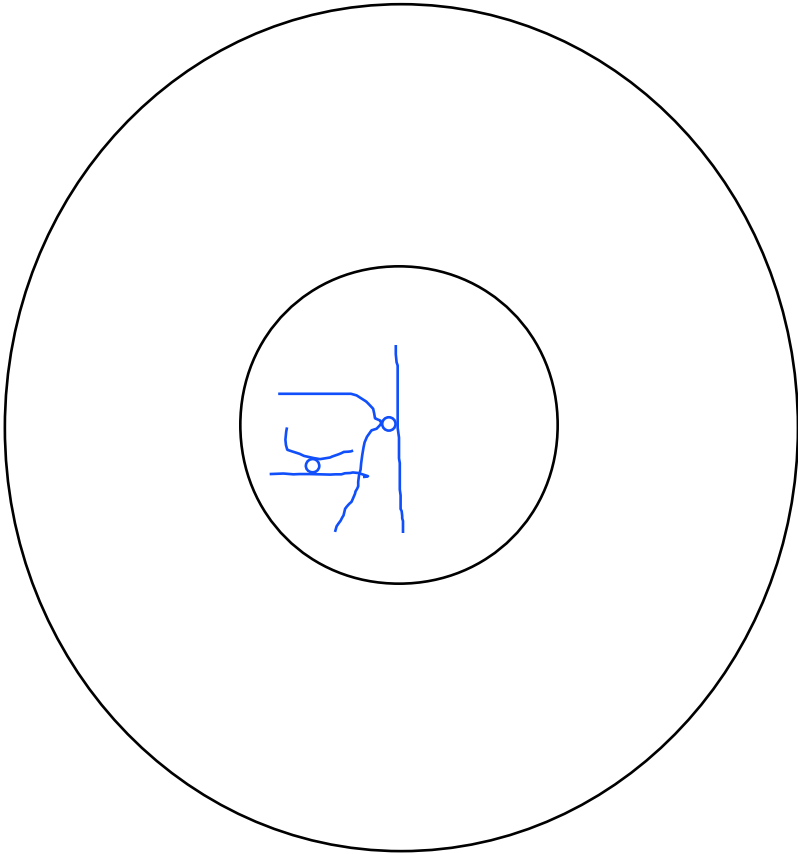
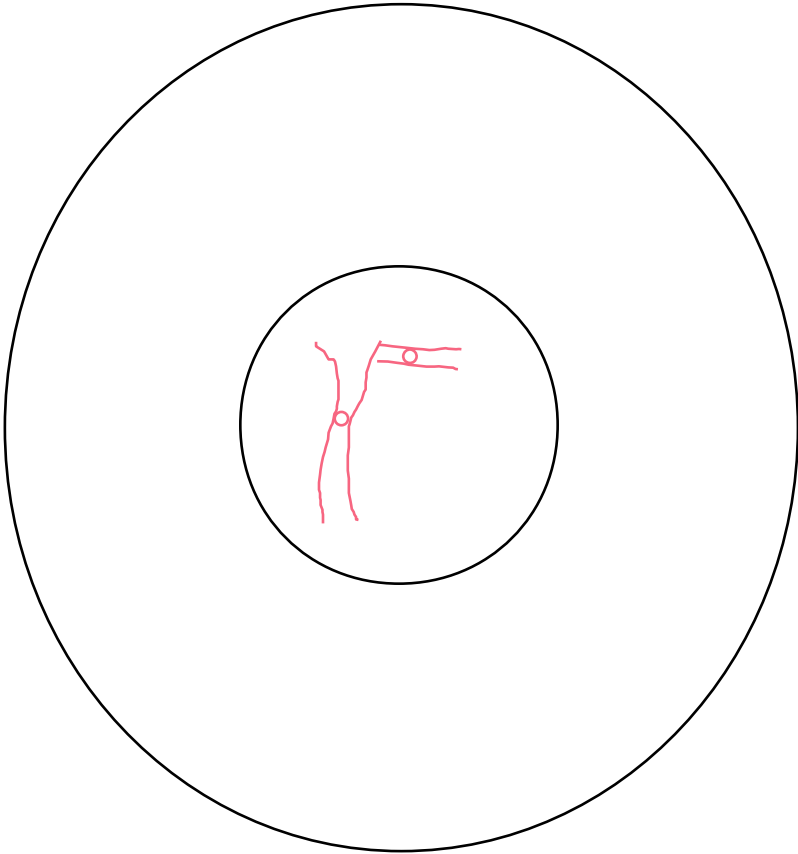
This cell
Human cell

Chromosomes	Chromatids
4	8
46	92



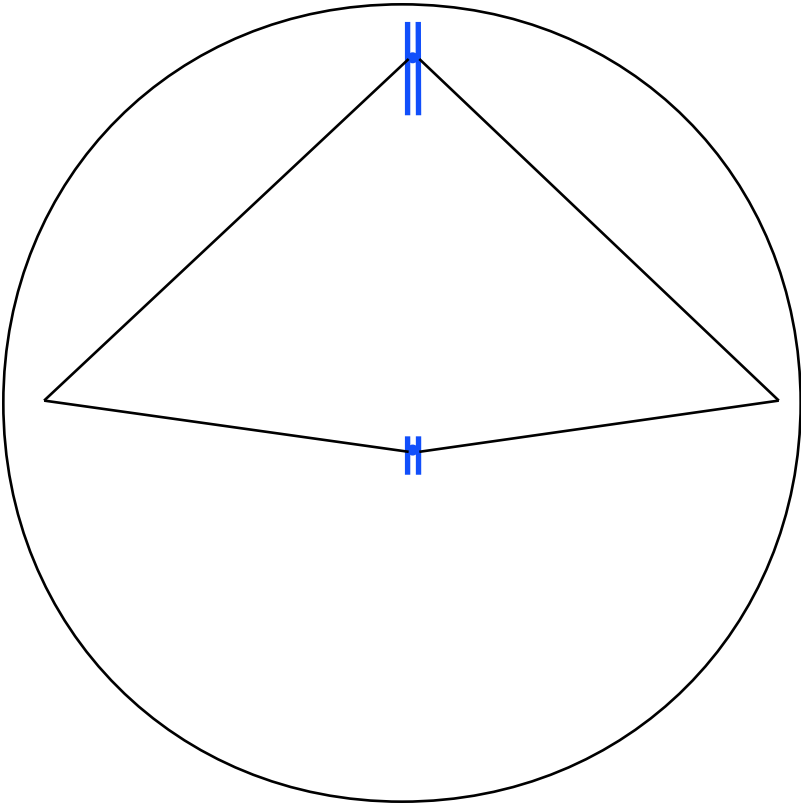
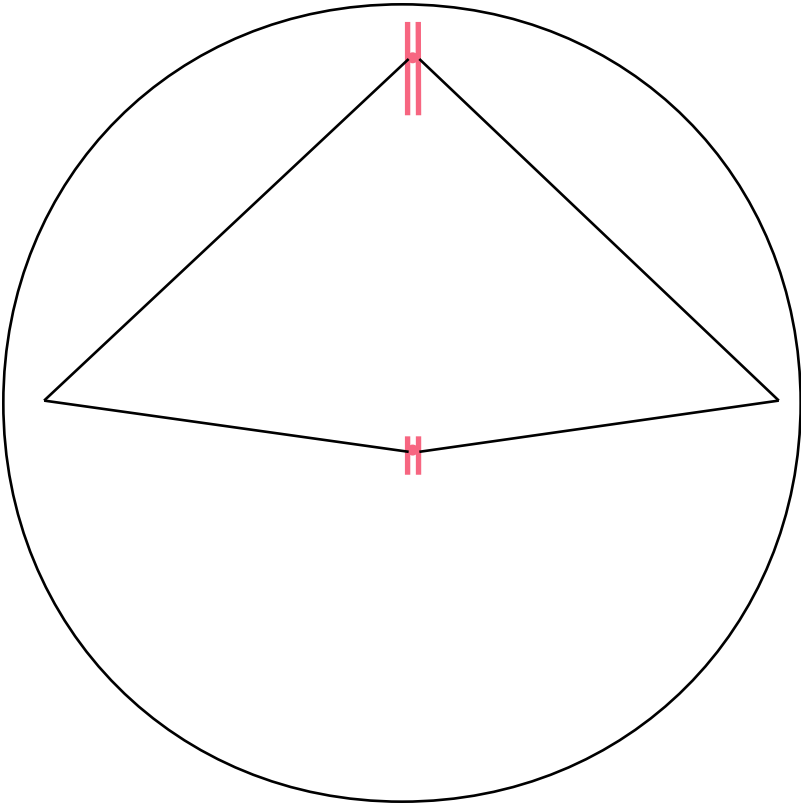
Interkinesis, then Prophase II
Alternative 1

	Chromosomes	Chromatids
This cell	2	4
Human cell	23	46



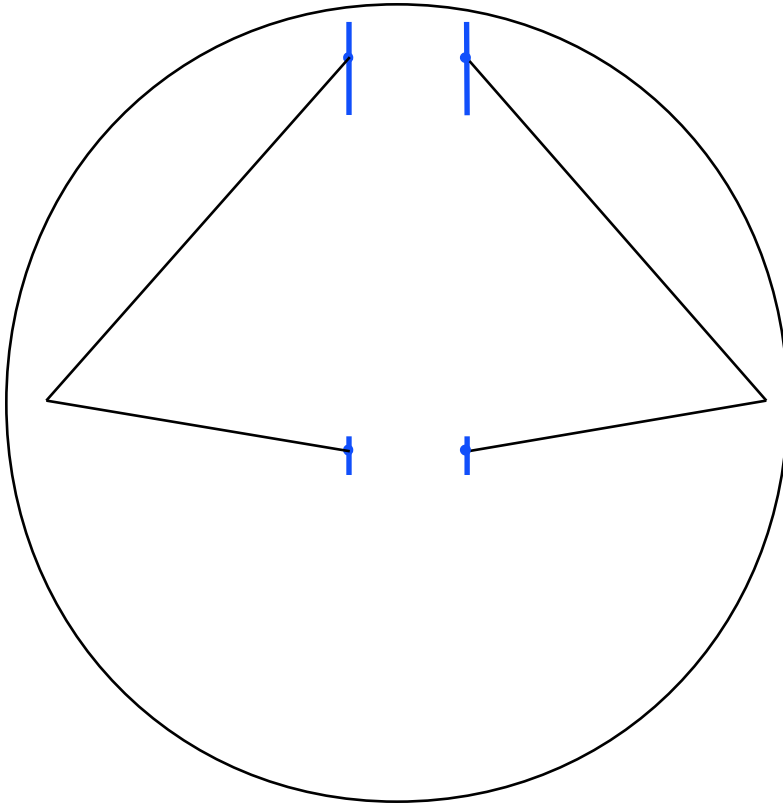
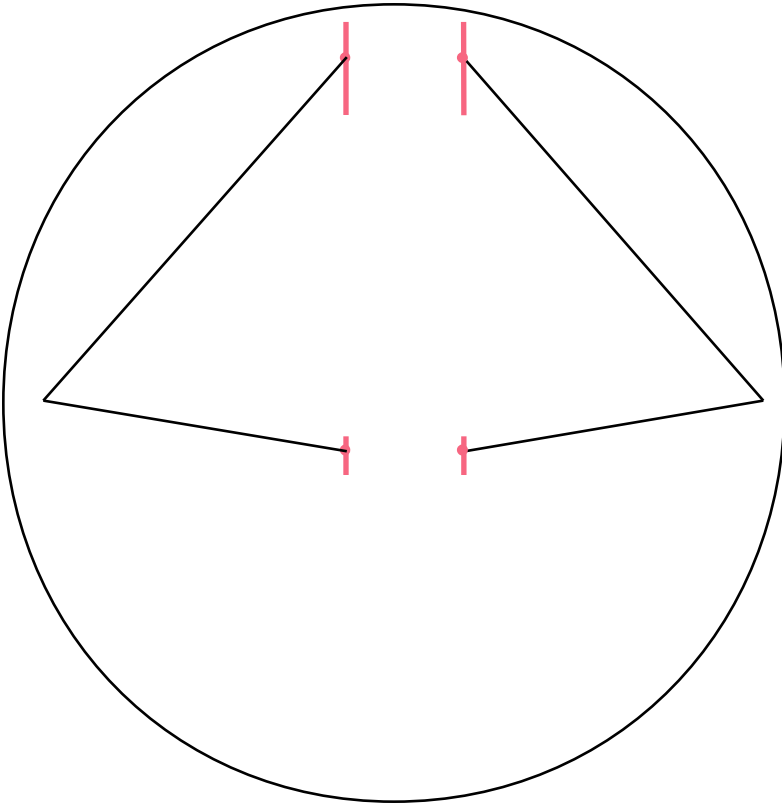
Metaphase II - Alternative 1

	Chromosomes	Chromatids
This cell	2	4
Human cell	23	46



Anaphase II - Alternative 1

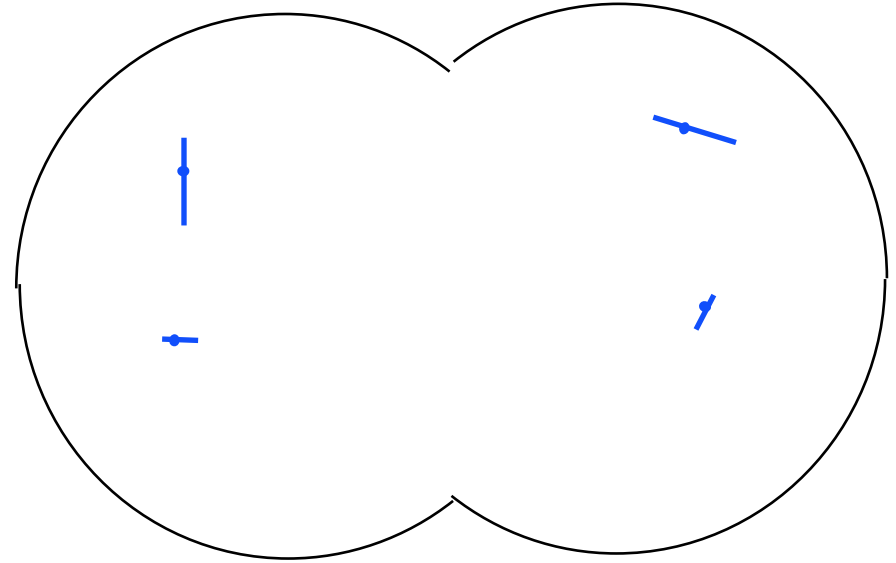
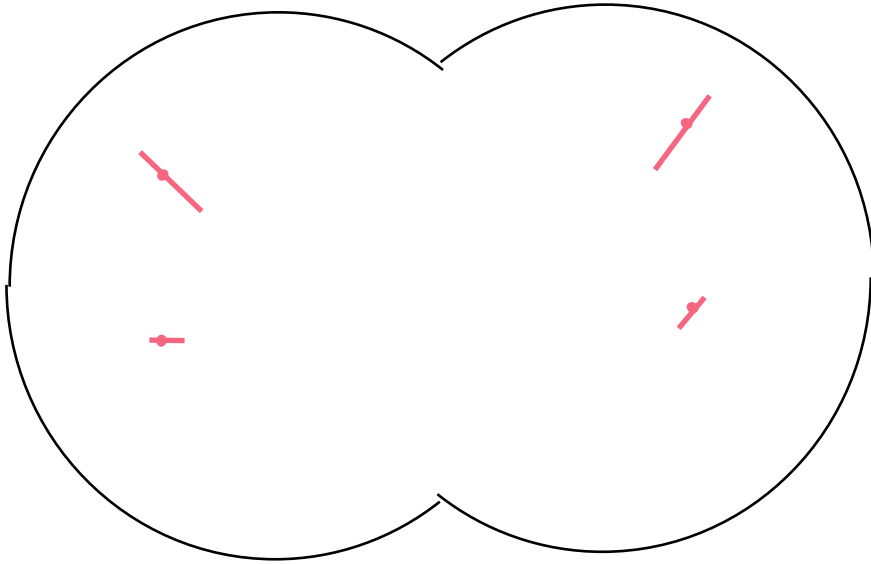
	Chromosomes	Chromatids
This cell	4	4
Human cell	46	46



Telophase II - Alternative 1

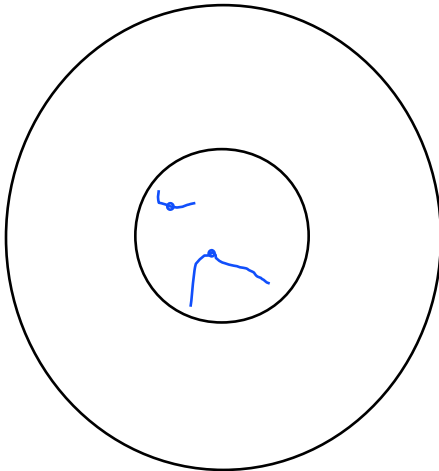
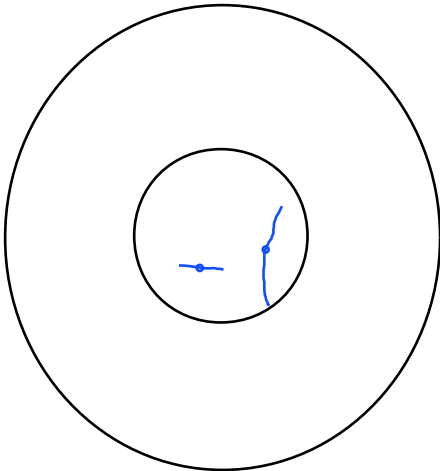
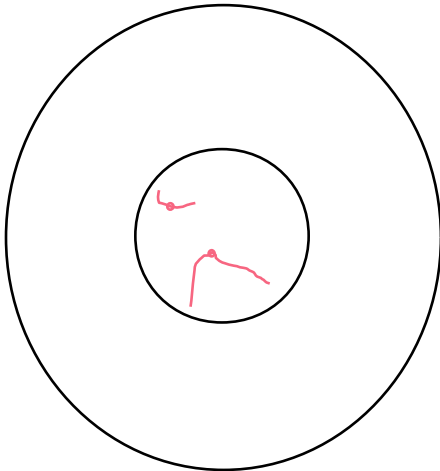
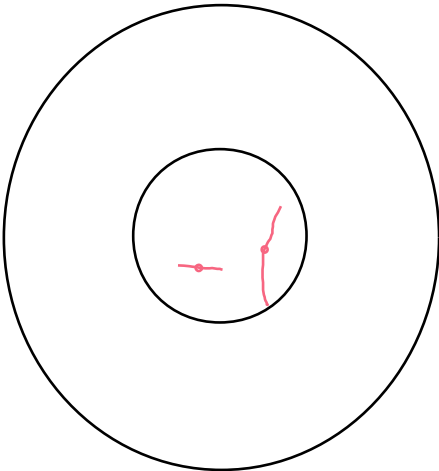
This cell
Human cell

Chromosomes	Chromatids
4	4
46	46



Haploid cells - Alternative 1

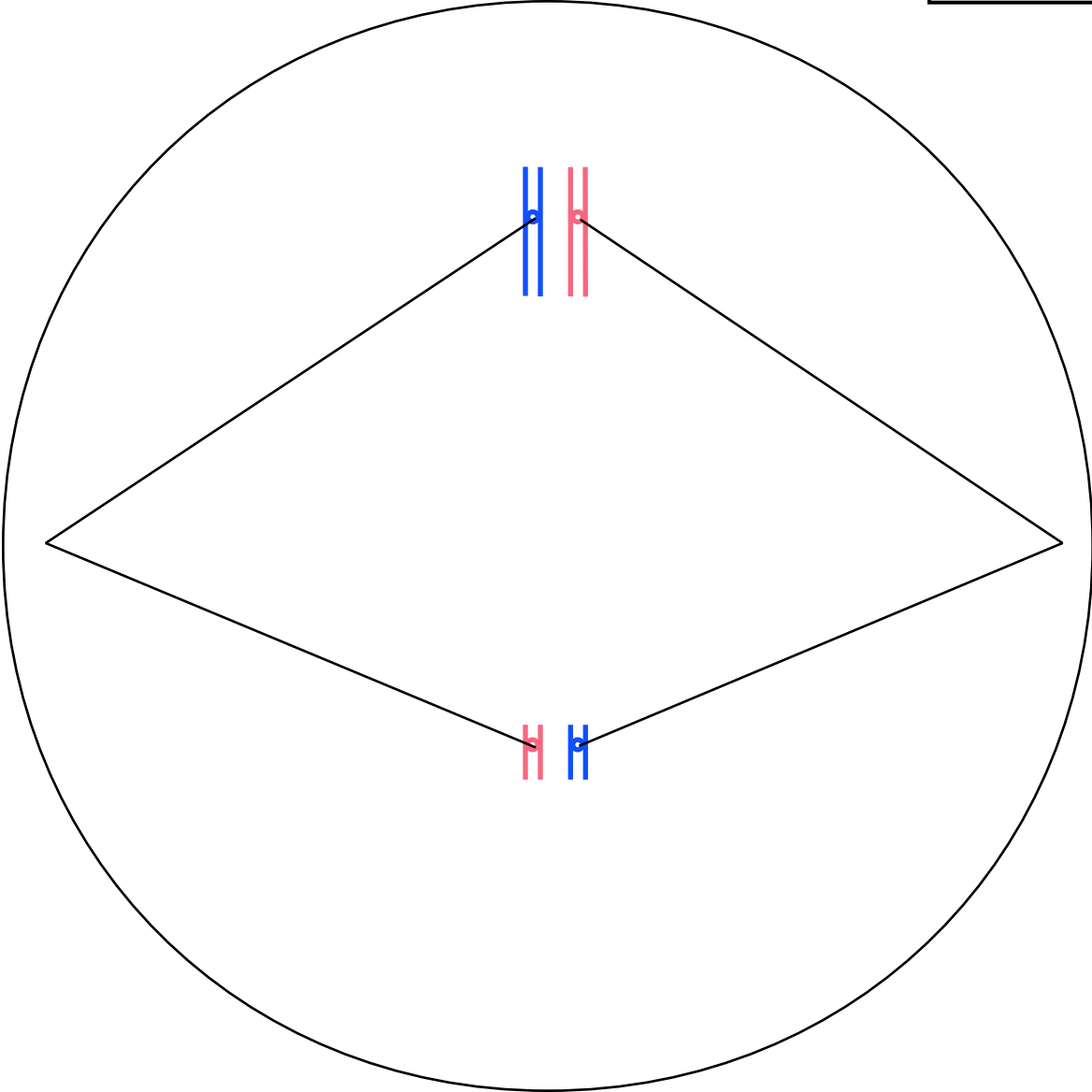
	Chromosomes	Chromatids
This cell	2	2
Human cell	23	23



Metaphase I - Alternative 2

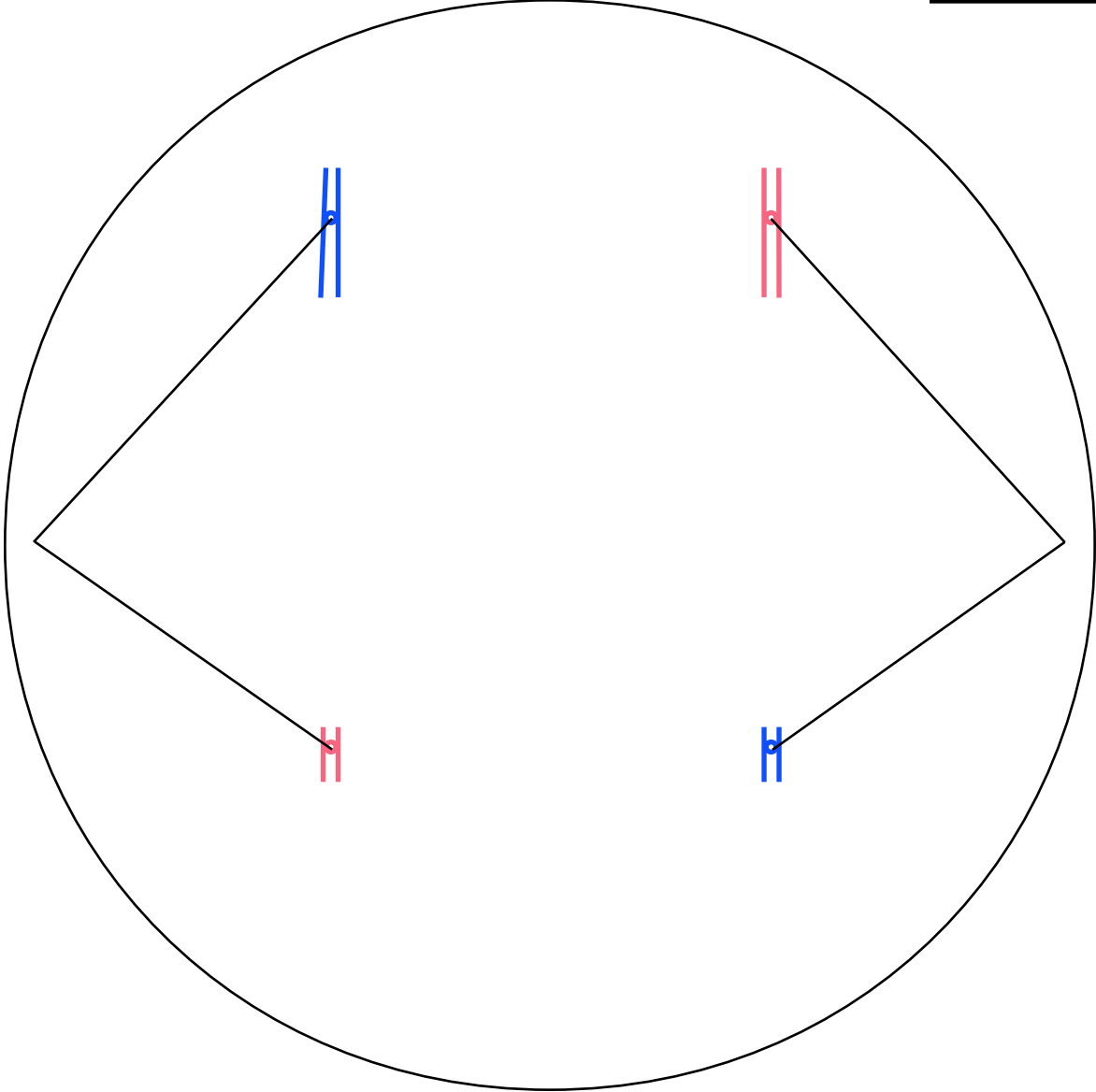
This cell
Human cell

Chromosomes	Chromatids
4	8
46	92



Anaphase I - Alternative 2

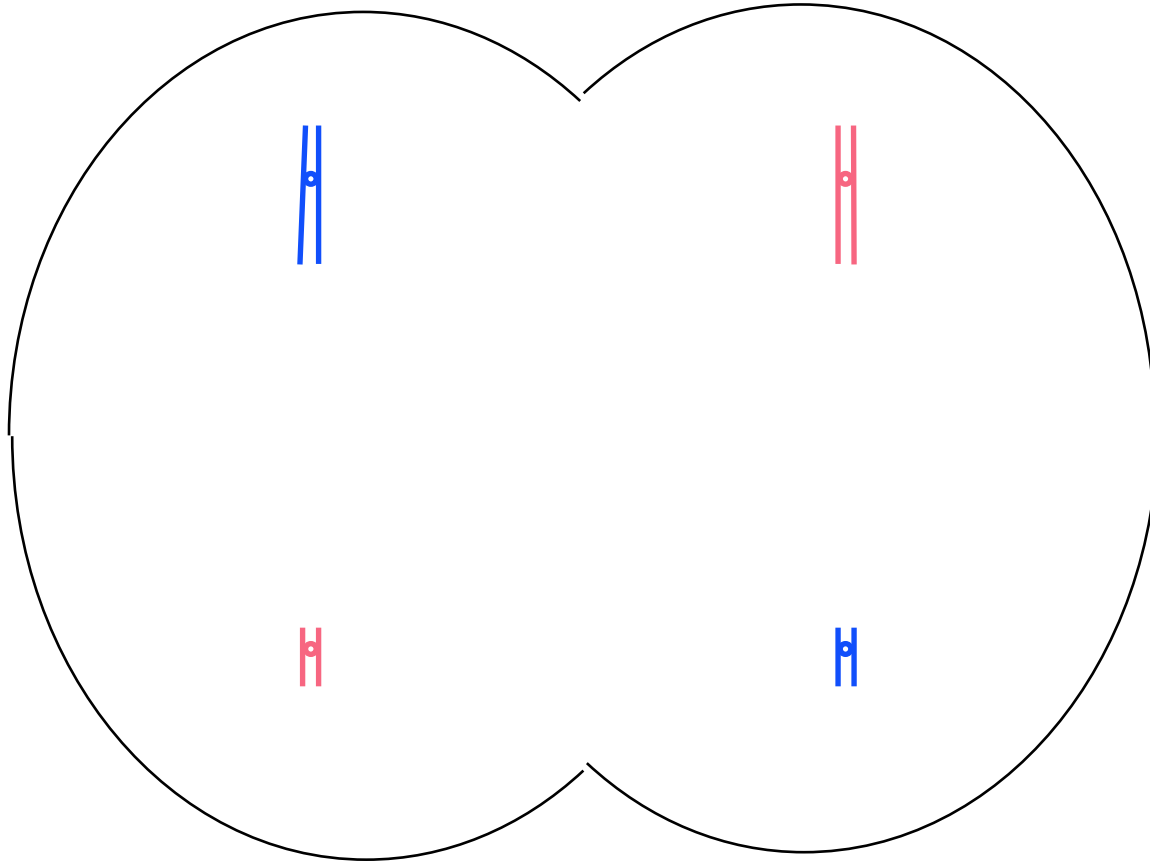
	Chromosomes	Chromatids
This cell	4	8
Human cell	46	92



Telophase I - Alternative 2

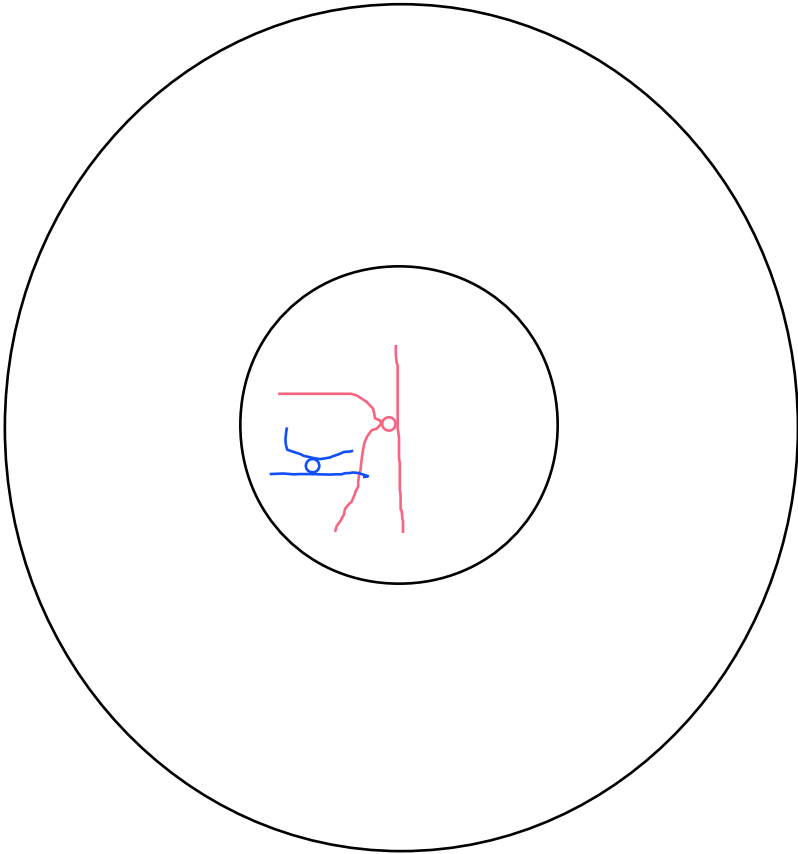
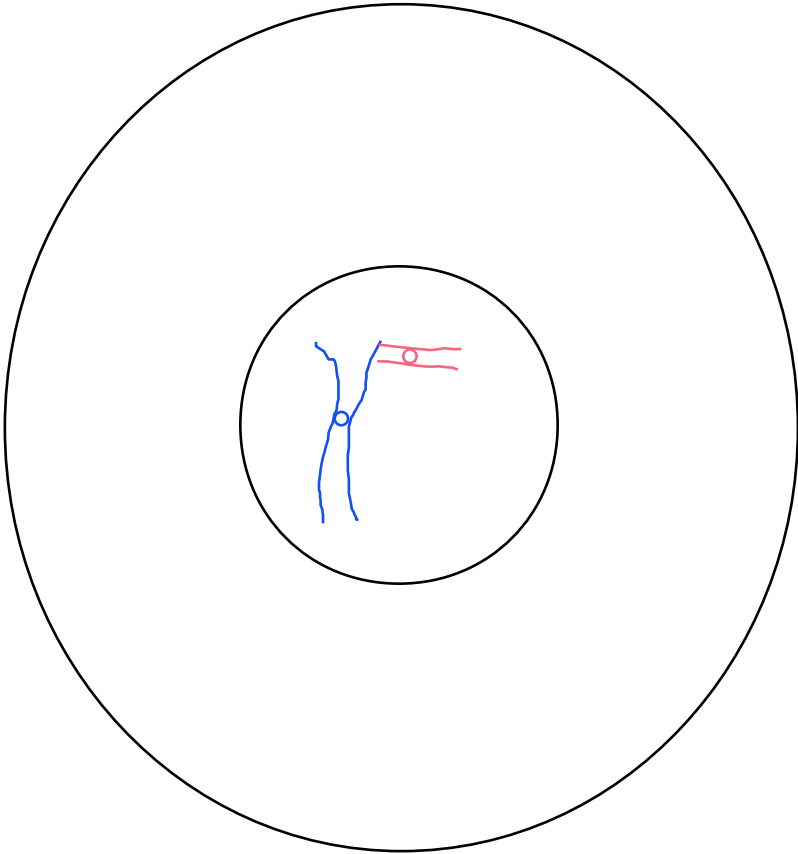
This cell
Human cell

Chromosomes	Chromatids
4	8
46	92



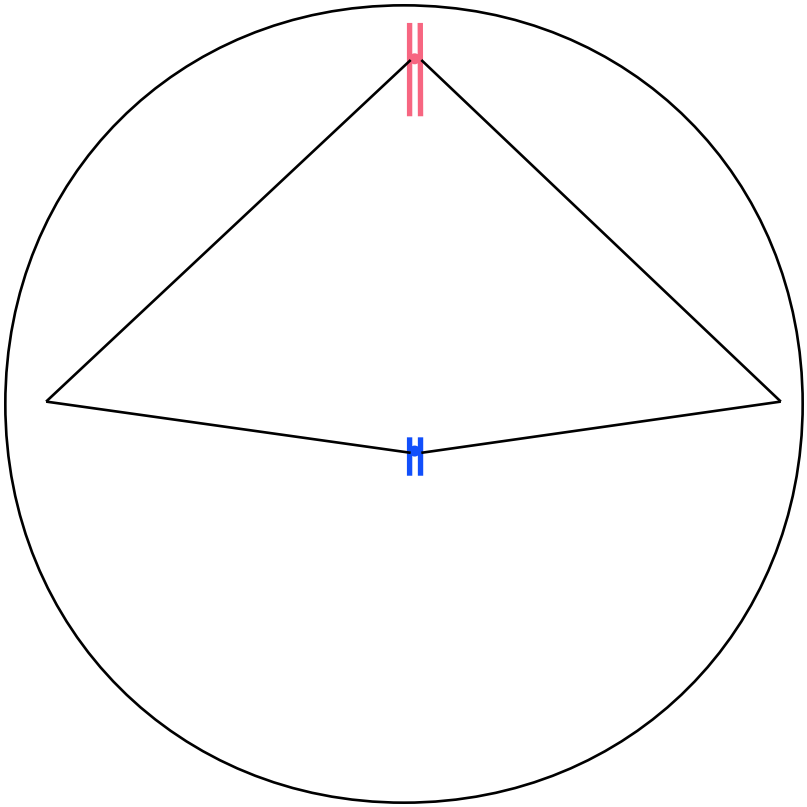
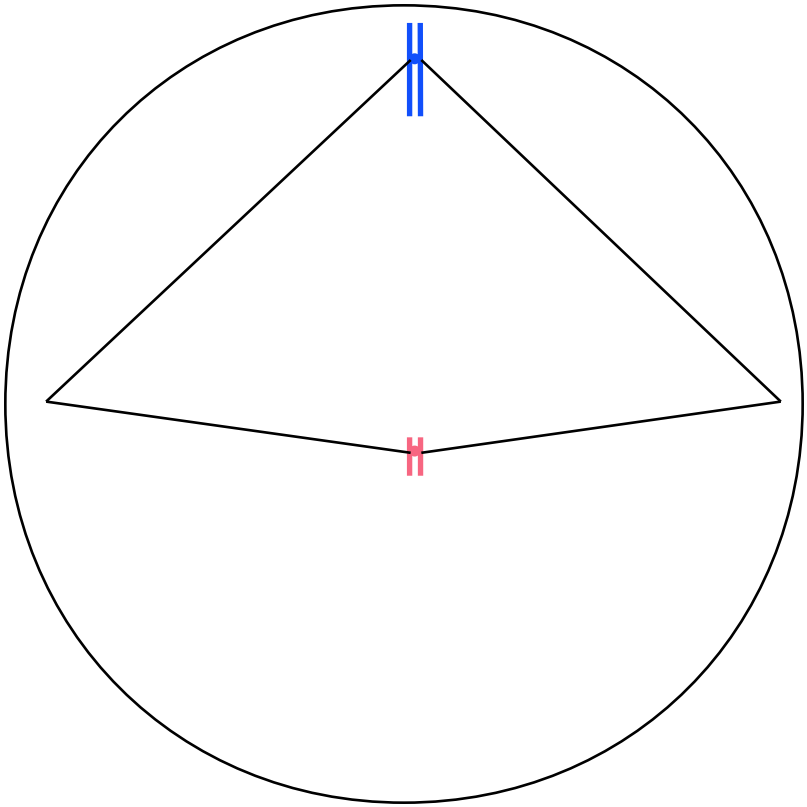
Interkinesis, then Prophase II
Alternative 2

	Chromosomes	Chromatids
This cell	2	4
Human cell	23	46



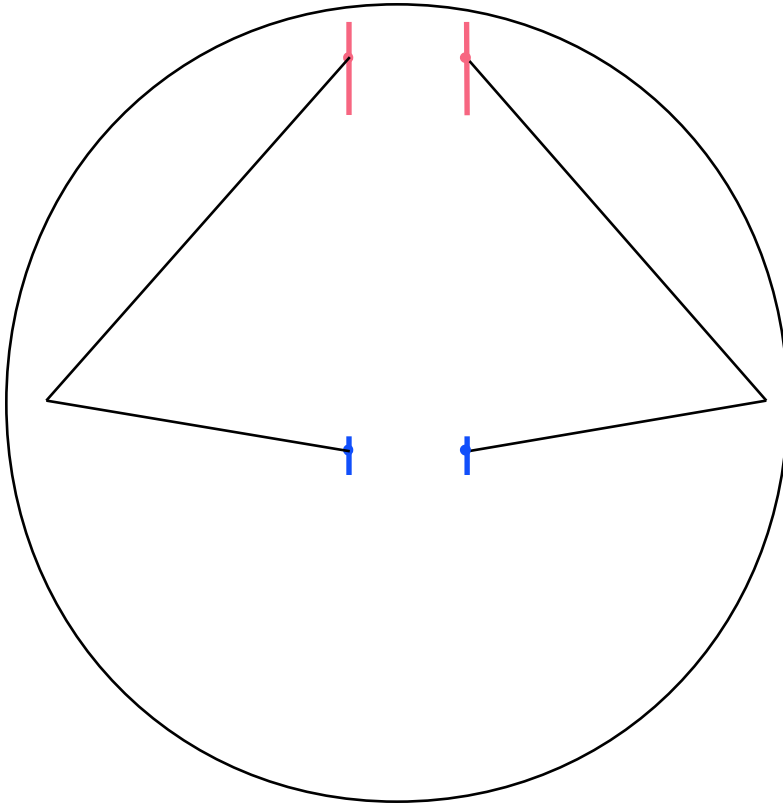
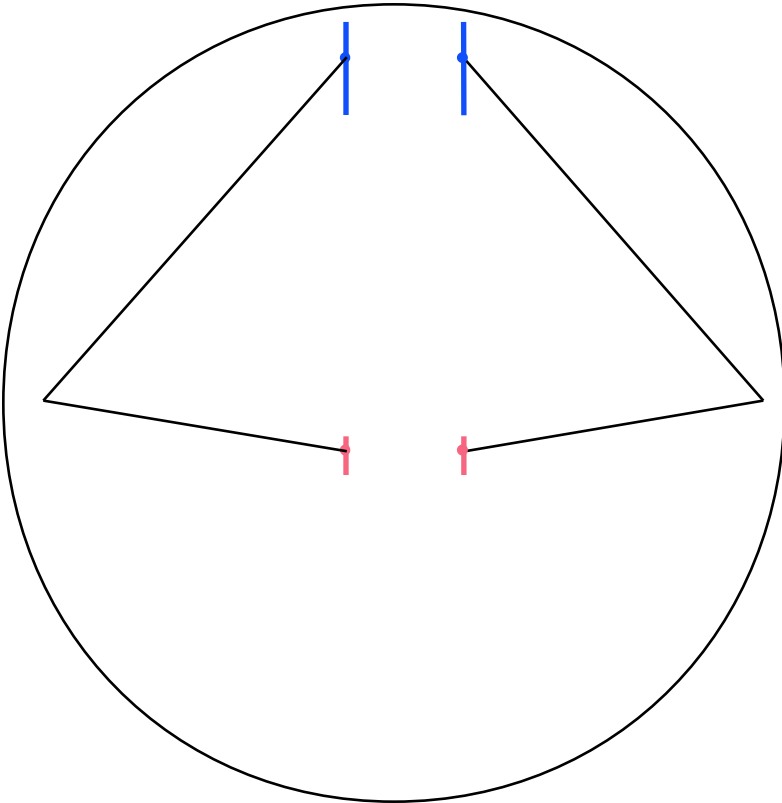
Metaphase II - Alternative 2

	Chromosomes	Chromatids
This cell	2	4
Human cell	23	46



Anaphase II - Alternative 2

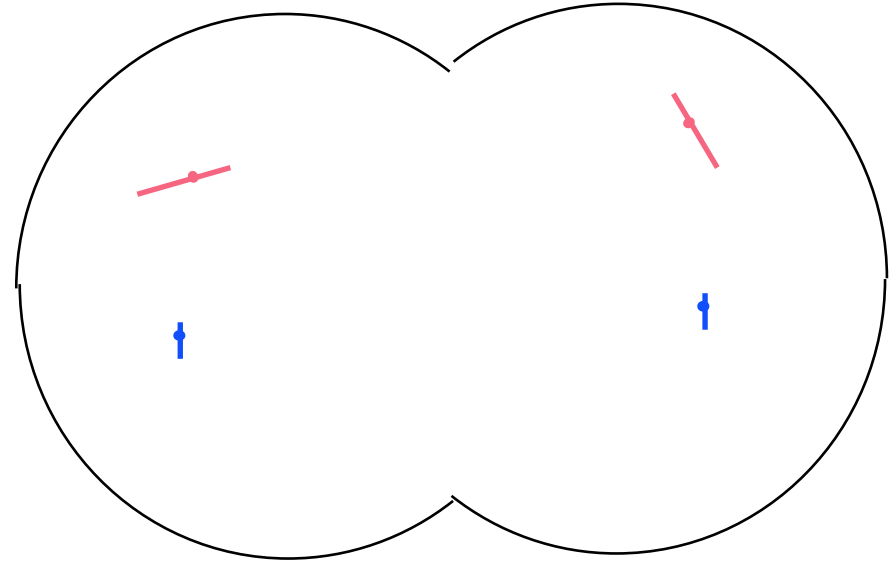
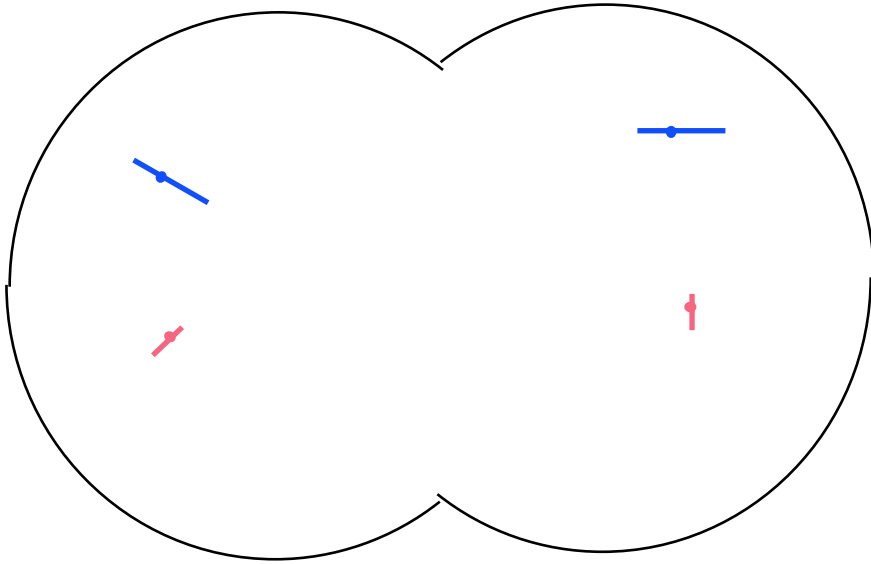
	Chromosomes	Chromatids
This cell	4	4
Human cell	46	46



Telophase II - Alternative 2

This cell
Human cell

Chromosomes	Chromatids
4	4
46	46



Haploid Cells - Alternative 2

	Chromosomes	Chromatids
This cell	2	2
Human cell	23	23

