Name: _____

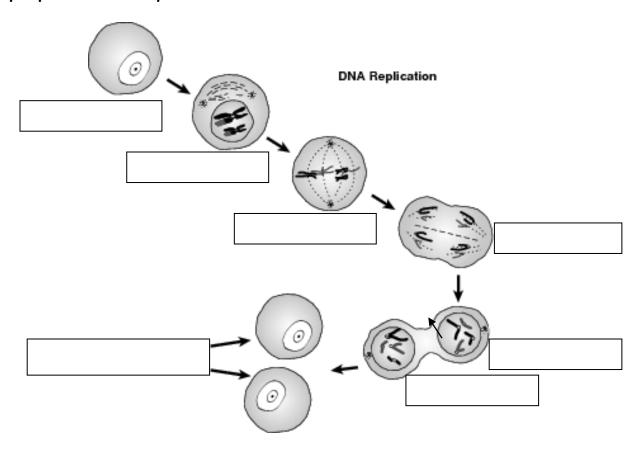
Date: ____

Worksheet 5-1 Cell Division & Cell Cycle (Nelson p.32-33; p.36-39)

1) Label the diagram below.

anaphase cytokinesis prophase telophase

daughter cells interphase metaphase



- 2) The three stages of the cell cycle are _______, __________,
- 3) Describe 2 events that happen during **metaphase**.
 - a) _____
 - b) _____
- 4) A skin cell in a cat has **38 chromosomes**. It divides and produces two daughter cells. Each daughter cell will have _____ (how many?) chromosomes.
- 5) A human skin cell has 46 chromosomes just before it starts mitosis. A cell division will produce _____ (how many?) cells; each with _____ (how many?) chromosomes.

6) Fill in the blanks.

7)

anaphase prophase	•	interphase	metaphase	mitosis		
(a)	The longe	The longest stage in the cell cycle.				
(b)	The cytop	The cytoplasm and organelles of the cell are being divided.				
(c)	The chron	The chromosomes line up across the centre of the cell.				
(d)	A nuclear membrane forms around chromosomes.					
(e)	The chron	The chromosomes are moving towards the opposite sides of the cell.				
(f)	Chromoso	Chromosomes are duplicated.				
(g)	The chron dissolve.					
(h)	The nucle	The nuclear material is divided into two equal parts.				
List three rea	sons for cell division	on.				
a)				_		
b)				_		
c)						

Matching: Match the phases of mitosis to the picture.

Prophase Telophase Metar

Prophase	Telophase	Metaphase	Anaphase
	2 图 旗		
<u>~</u>			