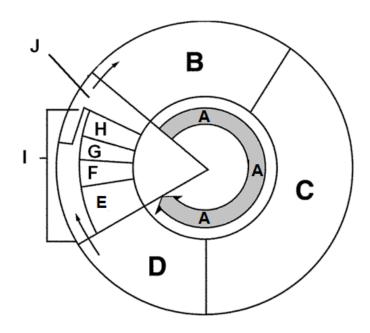
## mitosis practice



Label the parts of the cell cycle diagram and briefly describe what is happening:

Labe	it the parts of the cen cycle diagram and briefly describe what is napperling.
Α	
В	
С	
D	
E	
F	
G	
Н	
I	
J	

- 1) Chromosomes move to the middle of the cell during what phase?
- 2) What are sister chromatids?

7) What is another name for mitosis?				
8) What is the structure that breaks the spindle fiber into 2?				
9) What makes up the mitotic apparatus?				
10) Complete the table by checking the correct column for each statement.				
Statement	Interphase	Mitosis		
Cell growth occurs				
Nuclear division occurs				
<u>Chromosomes</u> are finishing moving into separate daughter cells.				
Normal functions occur				
Chromosomes are duplicated				
DNA synthesis occurs				
Cytoplasm divides immediately after this period				
Mitochondria and other organelles are made.				

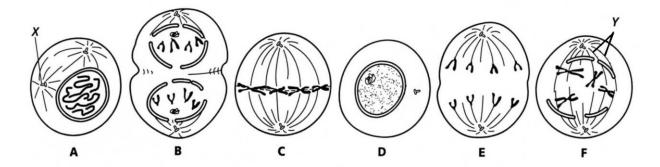
3) What holds the chromatids together?

4) When do the sister chromatids separate?

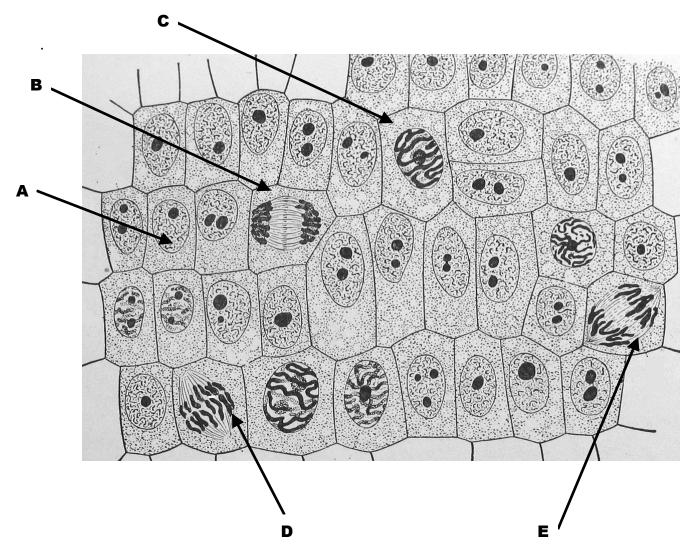
5) During which phase do chromosomes first become visible?

6) During which phase does the cleavage furrow start forming?

## The Animal Cell Cycle - Phases are out of order



- 11) Which cell is in metaphase?
- 12) Cells A and F show an early and late stage of the same phase of mitosis. What phase is it?
- 13) In cell A, what is the structure labeled X?
- 14) In cell F, what is the structure labeled Y?
- 15) Which cell is not in a phase of mitosis?
- 16) A new membrane is forming in B. What is this phase called?
- 17) Sequence the six diagrams in order from first to last.
- 18) What is the end product of mitosis?
- 19) If the original cell has 46 chromosomes, how can each new daughter cell also have 46 chromosomes?
- 20) 24. What is the main difference between cell division in plants and animals?
- 21) What is the purpose of mitosis?
- 22) What is apoptosis?
- 23) If we do not go through apoptosis we can get cancer, explain why.
- 24) Complete this sentence: As cell size goes \_\_\_\_\_ effectiveness of diffusion and osmosis goes \_\_\_\_\_. This drives the cells to stay small!



Name the phase shown in the picture above.

Picture	Stage
А	
В	
С	
D	
E	