


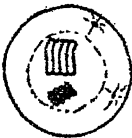



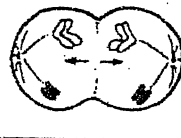

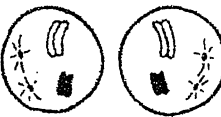
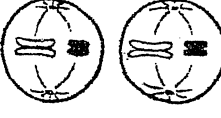
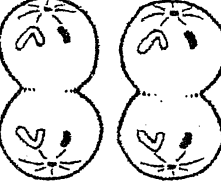



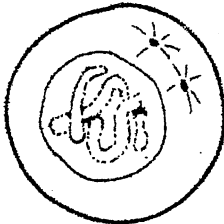
Cell Reproduction

Mitosis and Meiosis

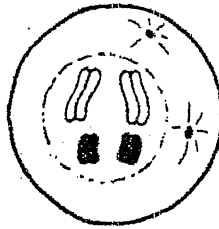
1. The chart below shows the steps of mitosis and meiosis in the correct order. Complete the chart by answering the questions beside the diagrams.

Mitosis	Meiosis	
		a. Where are the chromosomes? _____ b. Are they easily seen in mitosis? _____ c. How many are present in each cell? _____
		d. What happens to the centrioles? _____ _____
		e. What part has faded away? _____ f. Where have the chromosomes moved? _____
		g. What happens to the chromosomes? _____ _____
		h. What cell part begins to form? _____ i. How many cells are present in mitosis? _____ j. How many chromosomes are in each of those cells? _____
		k. How many chromosomes are present in each cell? _____ _____
		l. What happens in meiosis now? _____ _____
		m. Did the chromosomes double? _____ n. How many cells are formed in meiosis? _____ o. How many chromosomes are in each of those cells? _____

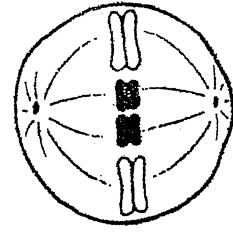
2. Match each of the following stages of mitosis with the statements below. Letters may be used more than once. Write the correct letter on each blank. Note: The stages of mitosis are not in the correct order.



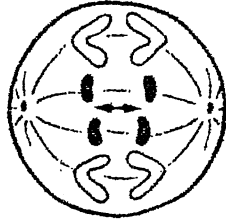
A



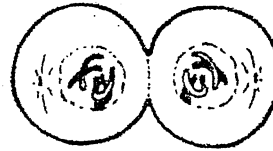
B



C



D



E

- a. Two new identical cells are formed. _____
 - b. Cytoplasm begins to separate. _____
 - c. Doubled chromosomes are first pulled apart. _____
 - d. Chromosomes are completely separated and at opposite ends of the cell. _____
 - e. The first signs of mitosis can be seen. _____
 - f. The cell is not going through mitosis. _____
 - g. Chromosomes begin to thicken and darken. _____
 - h. Doubled chromosomes move to the cell's center and line up on fibers. _____
 - i. A nuclear membrane begins to form around chromosomes. _____
3. How does the chromosome number in sperm compare to that of the cell from which it came? _____
 4. How does the chromosome number of an egg cell compare to that of the cell from which it came? _____
 5. How does the chromosome number of a muscle cell compare to that of an egg cell from the same animal? _____

 6. What process produces sperm and eggs? _____
 7. What process produces muscle cells? _____
 8. By what process do blood cells reproduce? _____