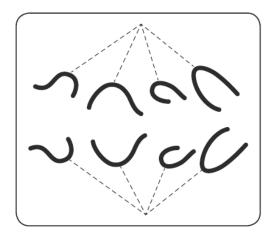
The diagram below shows one of the stages of mitosis in the root tip of a plant.

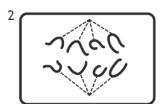


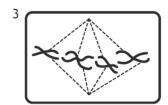
Which of the following statements describes the stage shown?

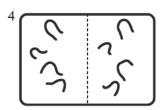
- A Chromosomes line up at the equator of the cell
- B Daughter chromosomes gather at the ends of the cell
- C Chromosomes become visible as pairs of identical chromatids
- D Spindle fibres pull chromatids to opposite poles of the cell

The following diagrams show a cell at four different stages of mitosis.









The correct order of the stages of mitosis is

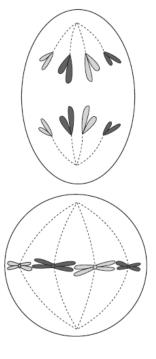
- A 1,3,2,4
- B 2,3,4,1
- C 3,2,1,4
- D 4,1,2,3.

(a) The diagram below represents a cell in an early stage of mitosis.



	(i)	State the number of chromosomes present in this cell.	
	(ii)	State how many chromosomes will be present in each of the two cells produced by the process.	1
(b)	Nam	e a site of mitosis in plants.	1

(a) The diagrams below show two stages of mitosis in cells.Draw one straight line from each diagram to its correct description.



chromosomes shorten and thicken

chromosomes line up at the centre of the cell

chromatids are pulled to opposite ends of the cell

nuclear membrane reforms

2

(b) How does mitosis ensure that the daughter cells will be able to function properly?

1

(c) The following is a description of the stages of mitosis.

