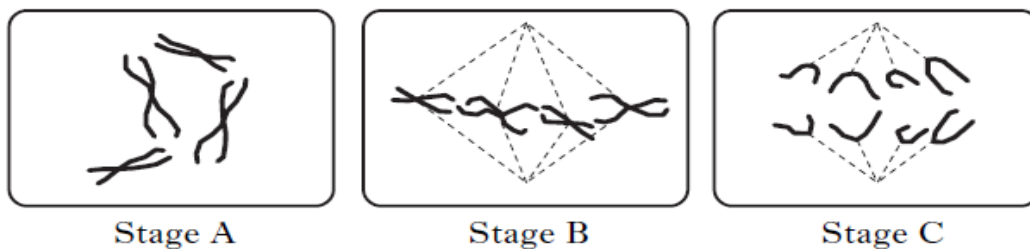


**Key Area 2.1 Homework 1**

(a) Stages of mitosis are shown in their correct order in the diagrams below.



(i) Label the spindle on one of the diagrams.

1

(ii) Stage C would be followed by stage D. Describe what would happen in stage D.

---



---

1

(b) Typical timings of the stages of mitosis are shown in the table below.

Stage	A	B	C	D
Time (minutes)	88	33	25	54

What percentage of the total time for mitosis is taken by stage C?

*Space for calculation*

\_\_\_\_\_ %

1

(c) Scientists can grow liver tissue in the laboratory. This is done by making a few liver cells divide by mitosis to form a large mass of cells.

Why is it important that the daughter cells contain the same number of chromosomes as the original mother cells?

---



---

1