

Marks

Question 21 (8 marks)

Describe a first-hand investigation used to estimate the size of red blood cells on a prepared microscope slide.

8

In your description include:

- a list of equipment used;
- a safety precaution needed;
- the step-by-step method used;
- a scaled diagram of a red blood cell.

**Aim:** Using a prepared microscope slide estimate the size of red blood cells.

**EQUIPMENT:** prepared slide, microscope, light, see through maths graph, pencil, paper.

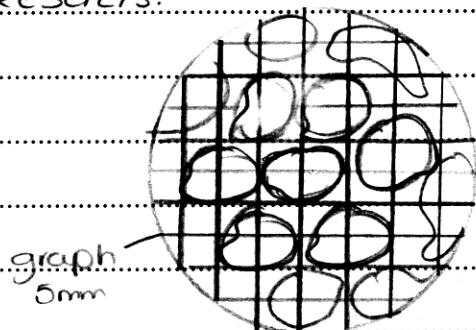
**METHOD:** 1. place microscope on a flat bench place & adjust light viewing microscope.

2. place slide on microscope, ~~and~~ using microscope clips to hold in place.

3. adjust microscope all the way down until just above slide, then move microscope up until in focus.

4. place graph on top of slide & estimate size. 5. observe & draw.

**RESULTS:**



scale: 10mm = 10  $\mu$ m

$\therefore$  red blood cells are

approximately 9.0  $\mu$ m in size

\*N.B. When using light be careful when moving as it may be hot; if slide is broken, remove & clean immediately, making sure to wash hands after