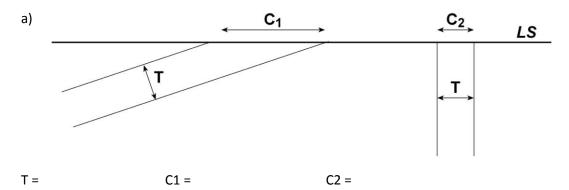


The width of an outcrop is determined by:

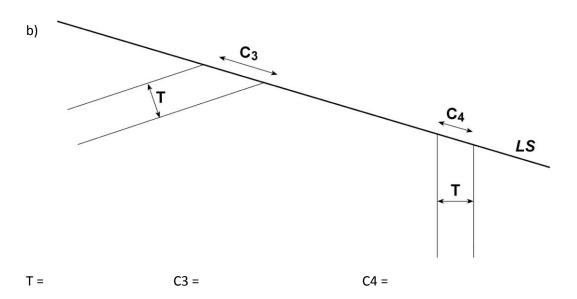
- the true thickness of the stratum (formation),
- the angle and direction of dip of the stratum, and
- the slope of the land surface where the outcrop occurs.
- 1. Refer to the diagrams and answer questions a d.

Note: Each diagram uses a scale of 1cm = 2m, T is thickness of stratum, LS is land surface and Cn is width of outcrop.

For each diagram measure the width of the two outcrops (in metres) and give a reason for the difference. Write your answers in the spaces provided below.

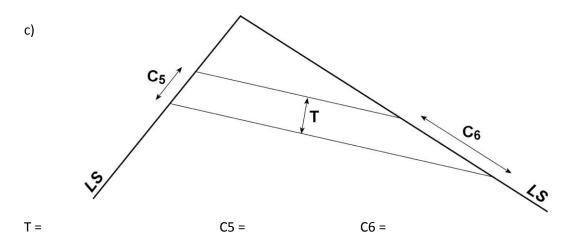


Reason for difference

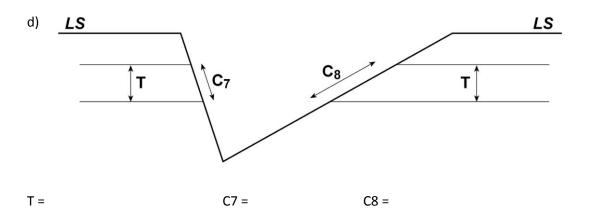


Reason for difference





Reason for difference



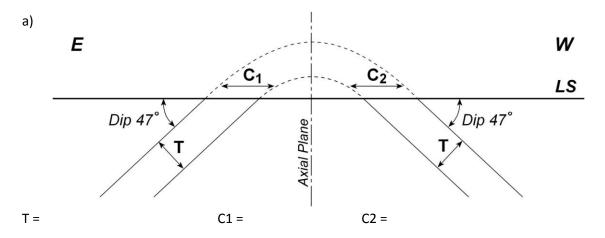
Reason for difference



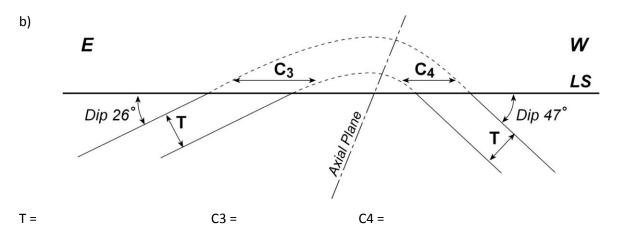
Problem Set 2

Note: Each diagram uses a scale of 1cm = 2m, T is thickness of stratum, LS is land surface and Cn is width of outcrop.

1 For each diagram measure the width of the two outcrops (in metres) and give a reason for the difference or similarity.

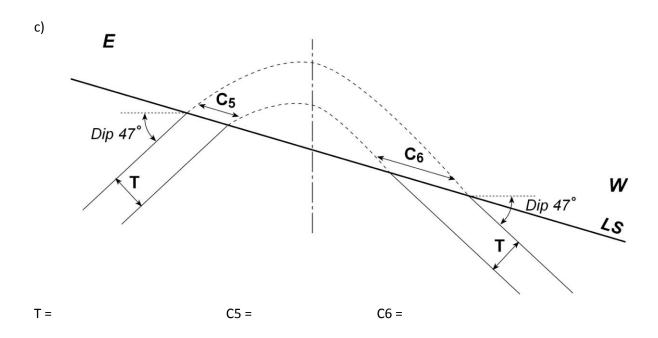


Reason for difference



Reason for difference





Reason for difference

2. For 1b) draw in the space provided below a **plan map** to show what the two outcrops would look like on a land surface.





a) Draw a cross section to show the syncline (Use a scale of 1cm = 2m)

3. A rock stratum with a thickness of 2 metres forms an asymmetrical syncline. The two limbs dip at 20 and 40 degrees respectively.

The stratum outcrops at two places on a level land surface. The distance between the centre of the two outcrops is 16 metres.

b)	Measure the width of the two outcrops (in metres)