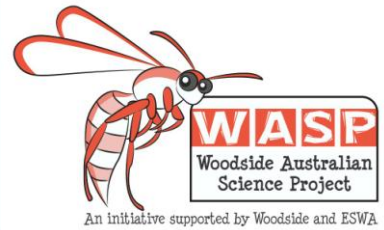


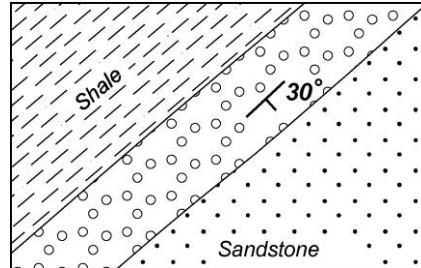
Geological Mapping Exercise 5



1. The diagram below shows an outcrop of conglomerate dipping at 30 degrees.

The conglomerate is bounded by shale to the NW and sandstone to the SE.

Scale is 1cm = 1 metre

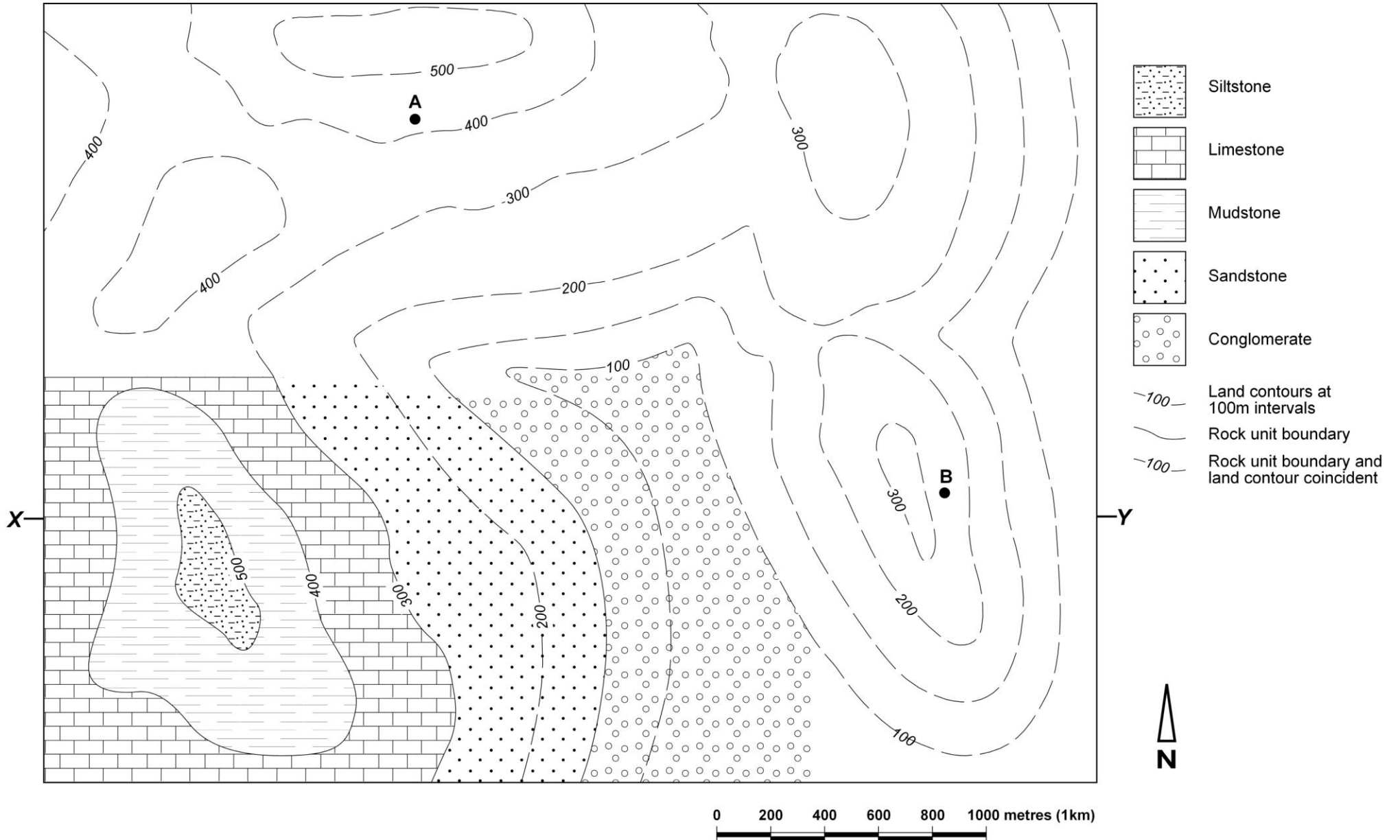
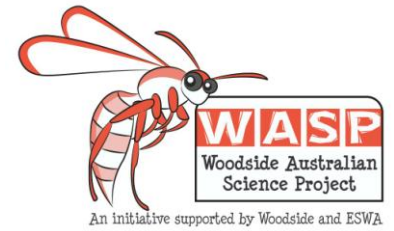


- In what direction is the dip of the conglomerate? _____
- What is the direction of strike? _____
- With the help of a diagram work out the true thickness of the conglomerate.

2. The next page shows an incomplete geological map.

- Complete the boundaries and outcrops of the rock strata.
- What is the dip of the strata? _____
- What is the thickness of
 - the limestone? _____
 - the sandstone? _____

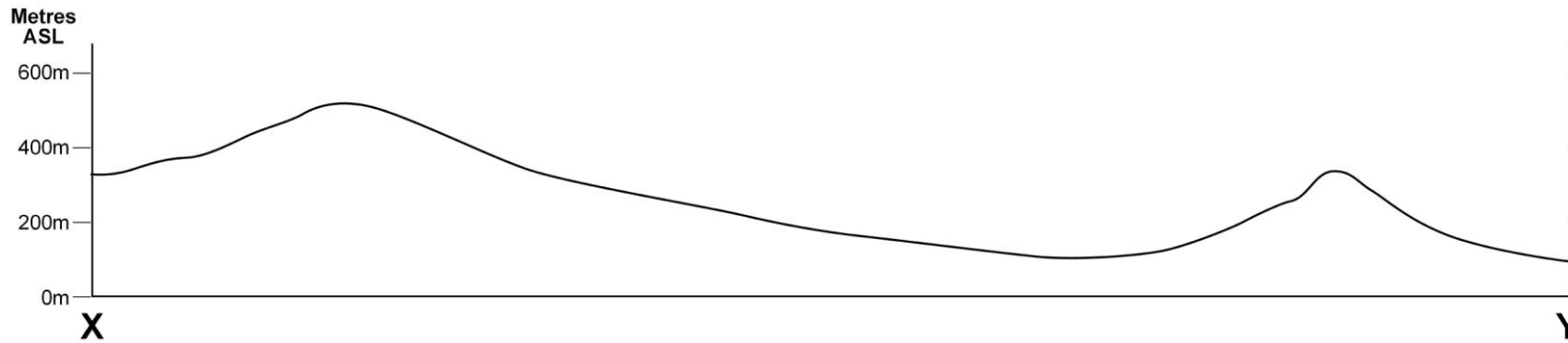
Geological Mapping Exercise 5



Geological Mapping Exercise 5



d) Using the map on the previous page draw a cross section from X to Y.



e) (i) If a vertical borehole were drilled at A, at what depth would the sandstone be first intersected? _____

(ii) If a vertical borehole were drilled at B, at what depth would the conglomerate be first intersected? _____