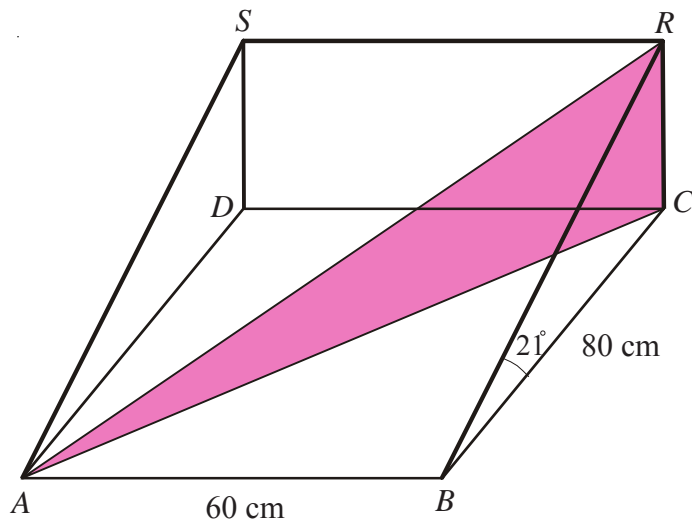




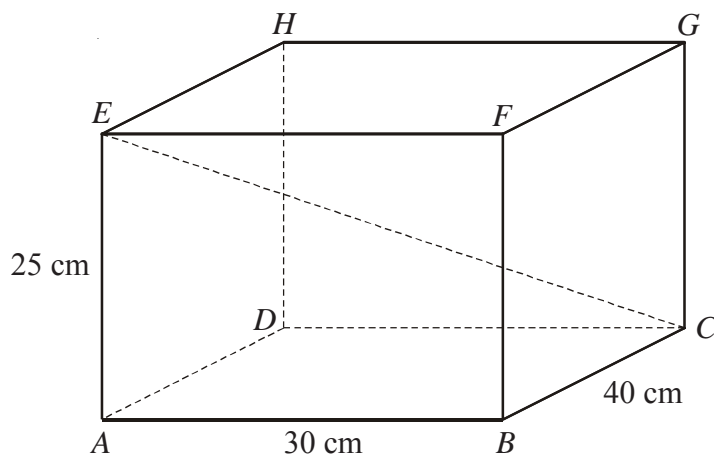
- 1) The diagram shows a wedge.
The base of the wedge is a horizontal rectangle measuring 80 cm by 60 cm.
The sloping face $ABRS$ makes an angle of 21° to the horizontal.



Calculate the angle that AR makes with the horizontal plane $ABCD$.
Give your answer correct to 1 decimal place.



- 2) The diagram shows a box in the shape of a cuboid.
A string runs diagonally across the box from C to E .



- a) Work out the length of the string CE .
Give your answer correct to 1 decimal place.
- b) Work out the angle between the string CE and the horizontal plane $ABCD$.
Give your answer correct to 1 decimal place.