(b) The inheritance of height is another example of polygenic inheritance.

It is possible to predict how tall children could become when they reach adulthood.

The prediction uses the following steps.

    1. Add the mother's height (cm) to the father's height (cm).
    2. Add 13 cm if the child is a boy or subtract 13 cm if the child is a girl.
    3. Divide by two.

(i) A woman with a height of 1.59 m has a daughter. The father is 1.76 m tall.

Calculate the predicted adult height of their daughter.

(1)

Answer ....m

(ii) Explain why their daughter may not grow to be this height.

(3)

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(Total for Question 3 = 7 marks)