① A model of a new hotel is made to a scale of 1:250.

(a) The length of the front wall of the model hotel is 30cm long. Calculate the real-life size of the length of this front wall in metres.
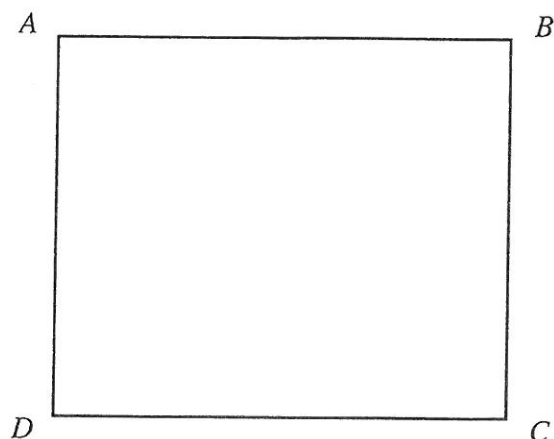
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[3]

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(b) The height of the real-life hotel will be 50m. What is the height, in cm, of the model of the hotel?

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[2]

(2) This diagram is drawn accurately using a scale 1 : 50. It shows a plan of a bedroom.

A _____ B

D _____ C

(a) What is the actual (real-life) length of the wall *AB*? Give your answer in metres.

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[2]

(b) A bed 2 metres long by 1 metre wide is placed along the wall *AB*, with the head of the bed against the wall *AD*. Draw the bed accurately on the above plan of the bedroom.

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[2]

(c) The room is 2·5 m high. The chart below shows how many rolls of wallpaper are required to paper the walls of rooms of different sizes.

		Perimeter of room (up to)				
		7 m	8·5 m	10 m	11·5 m	13 m
Height of room (up to)	2·5 m	4	5	5	6	6
	3·5 m	5	6	7	8	9
	4·5 m	7	9	10	12	14

Circle the entry in the table which gives the number of rolls of wallpaper that will be needed for this bedroom.
Explain how you obtained your answer.

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[2]

Turn over.