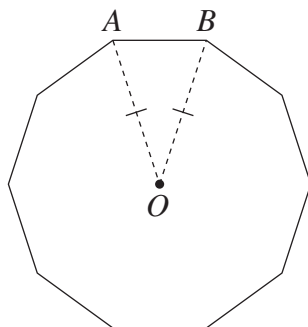**Question 32** (4 marks)

The diagram shows a regular decagon (ten-sided shape with all sides equal and all interior angles equal). The decagon has centre *O*.

4

The perimeter of the shape is 80 cm.

By considering triangle *OAB*, calculate the area of the ten-sided shape. Give your answer in square centimetres correct to one decimal place.

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