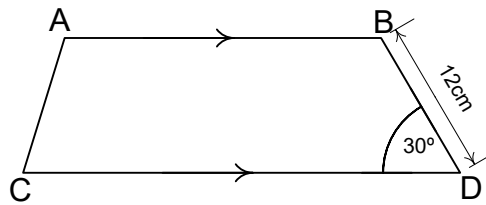




Q1 Below is a diagram of a trapezium.



The ratio of the length of side AB : length of side CD is 7:8.

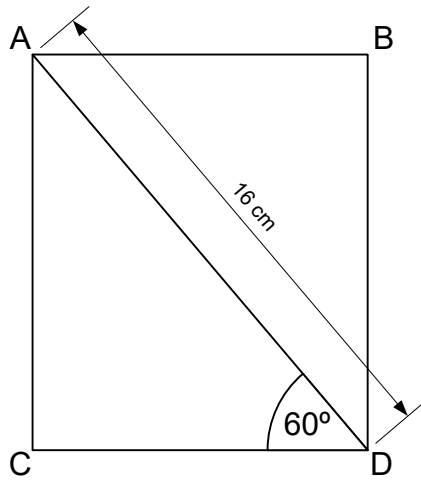
The area of the trapezium is 225cm^2 .

What is the length of side CD?

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Q2 Below is a farmer's field as shown on a map of scale 1: 5000



$AB = CD$ and $AC = BD$. Angle $ADC = 60^\circ$. Angle $CAD = 30^\circ$.

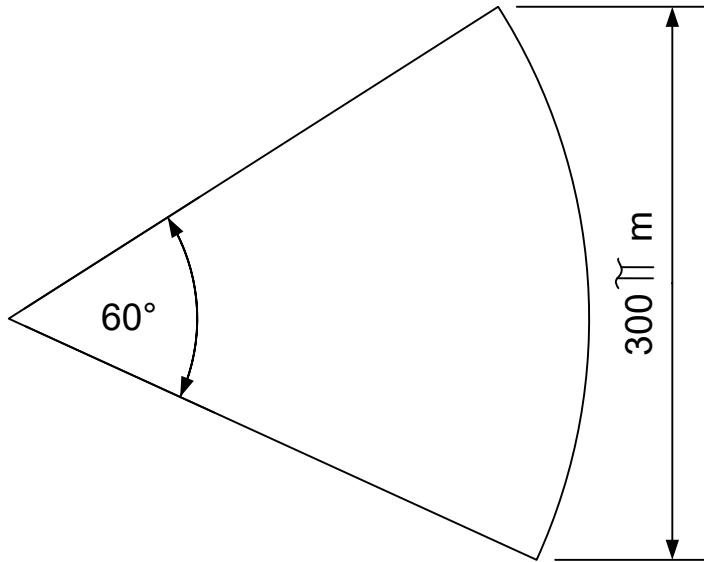
What is the area of the field?

Give your answer as an exact measurement.

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Q3 A telescope is placed at the top of a hill.
It has an angle of view of 60° .



The length of the arc that the telescope can cover is 300π m.
What is the total area that the telescope can see?

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(4)