14 A lawn is to be made in the shape of a sector of a circle. The diagram below shows the measurements of this sector.

(a) Find the area of the sector giving your answer in $\mathrm{m}^{2}$ to the nearest whole number.
(b) Before the lawn is laid, topsoil needs to be spread over the ground to a depth of 5 cm . Find the volume of topsoil needed in $\mathrm{m}^{3}$ giving your answer to the nearest whole number.
(c) If soil has a density of $1.1 \mathrm{~g} / \mathrm{cm}^{3}$, find how many tonnes of soil are required.
( 1 tonne $=1000 \mathrm{~kg}$ )
Give your answer to the nearest whole number.

