

Dr Oliver Mathematics
Worked Examples
Area 3

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1. In Figure 1, a small circle is drawn inside a larger circle. The small circle crosses the centre of the large circle, as shown.

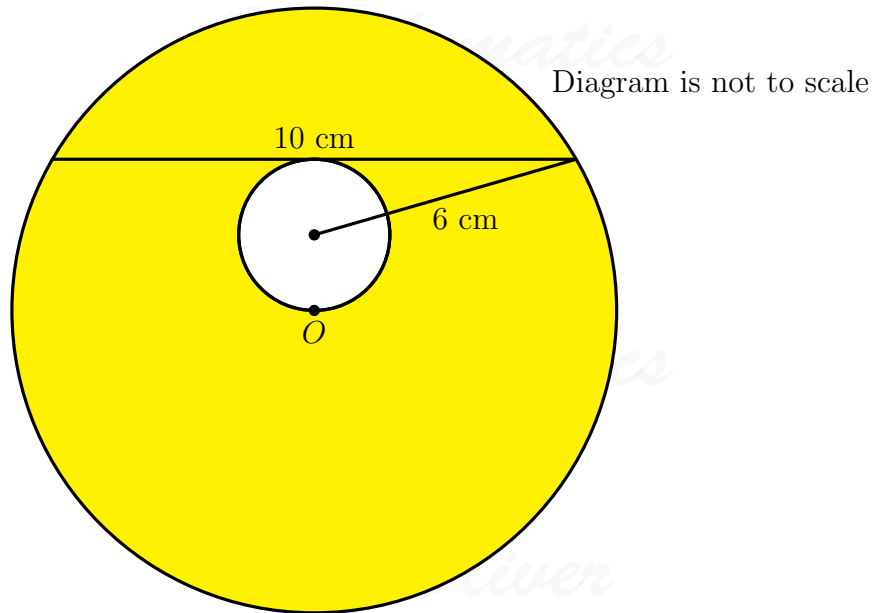


Figure 1: two circles

The length of the horizontal chord of the bigger half-circle is tangent to the smaller half-circle is 10 cm.

Moreover, the length of this line, which connects the centre of the small circle to the right-hand end of the chord, is 6 cm.

Find the shaded area in yellow.