

Area of Sectors and Segments of a Circle

Sector of a Circle: a region in the circle bounded by two radii and the minor arc they determine

The **area of a sector** is represented by $A = \frac{n}{360} \pi r^2$, where n is the number of degrees in the central angle of a sector.

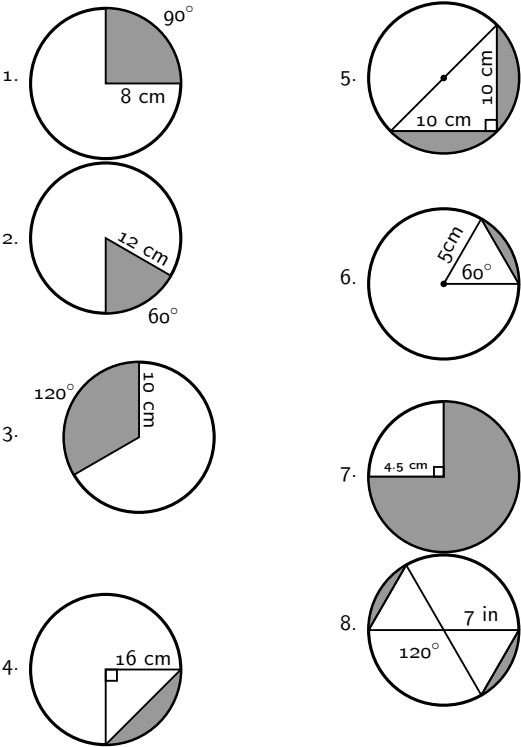
Segment of a Circle: a region bounded by an arc and the chord of the arc

The **area of a segment** of a circle is found by subtracting the area of a triangle from the area of a sector.

$A_{segment} = A_{sector} - A_{triangle}$

Practice Exercises

Find the area of each shaded region/s in each figure. Express your answer in terms of π .



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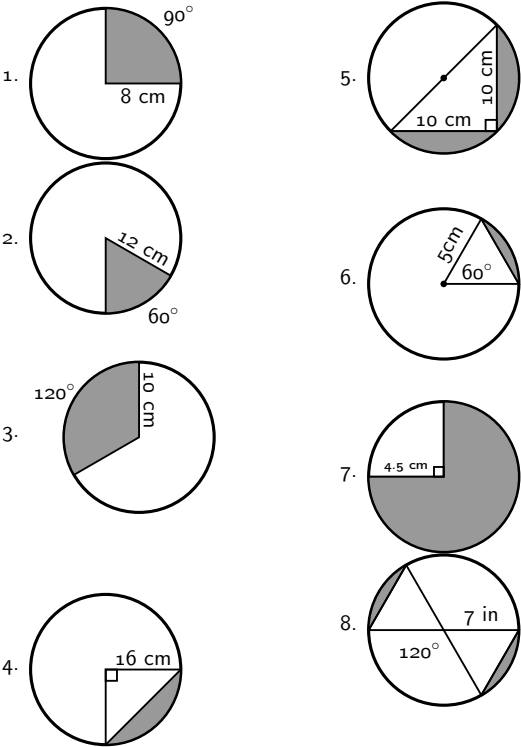
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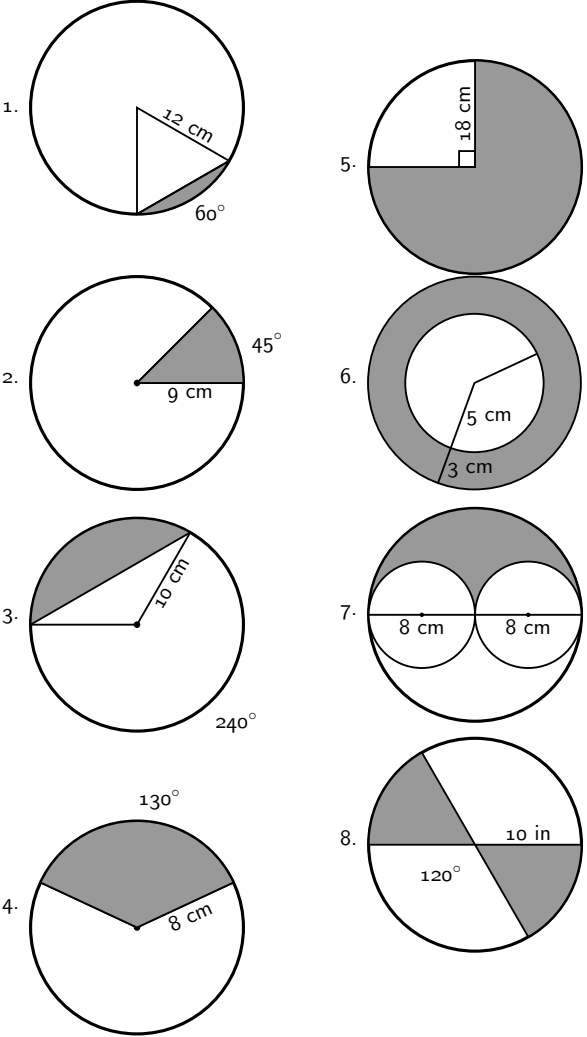
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