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Math worksheet on *'Area of a Circle Sector From Arc Length to Area (Equation) (Level 2)'*. Part of a broader unit on *'Geometry - Circle Area, Sectors and Donuts - Intro'*

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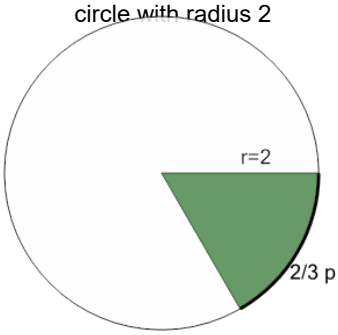
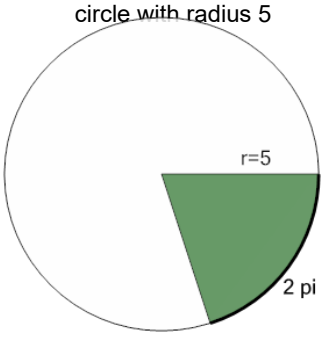
app.mobius.academy/math/units/geometry_circles_sector_donut_area_logic_intro/

1 Find the area (in terms of π) of the green shaded sector with an arc length of 2/3 pi in the circle with radius 2



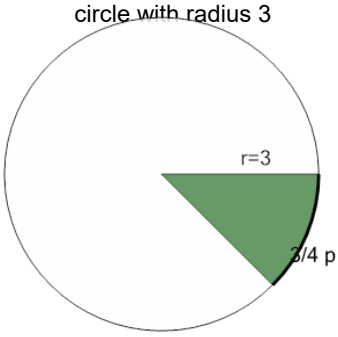
a $\frac{1}{3}\pi$ b $\frac{2}{3}\pi$ c 1π d 2π

2 Find the area (in terms of π) of the green shaded sector with an arc length of 2 pi in the circle with radius 5



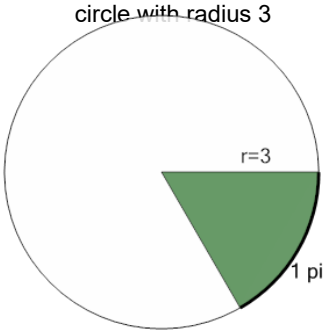
a 5π b $\frac{17}{5}\pi$ c 1π d 7π

3 Find the area (in terms of π) of the green shaded sector with an arc length of 3/4 pi in the circle with radius 3



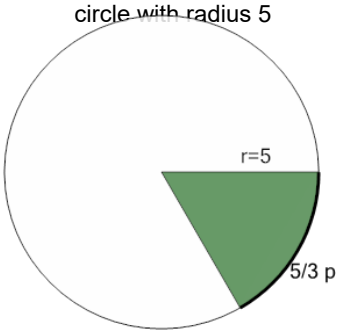
a $\frac{15}{8}\pi$ b $\frac{13}{8}\pi$ c $\frac{9}{8}\pi$ d $\frac{9}{4}\pi$

4 Find the area (in terms of π) of the green shaded sector with an arc length of 1 pi in the circle with radius 3



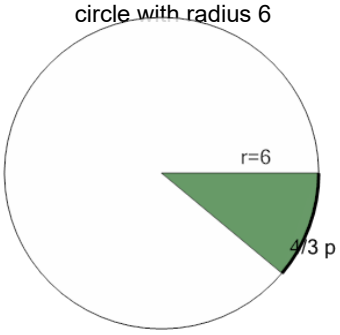
a $\frac{11}{6}\pi$ b $\frac{3}{2}\pi$ c $\frac{8}{3}\pi$ d $\frac{17}{6}\pi$ e $\frac{1}{2}\pi$

5 Find the area (in terms of π) of the green shaded sector with an arc length of 5/3 pi in the circle with radius 5



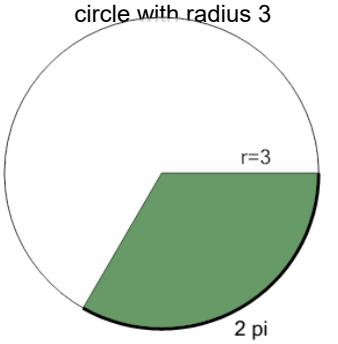
a $\frac{17}{6}\pi$ b $\frac{7}{6}\pi$ c $\frac{11}{2}\pi$ d $\frac{31}{6}\pi$ e $\frac{25}{6}\pi$

6 Find the area (in terms of π) of the green shaded sector with an arc length of 4/3 pi in the circle with radius 6



a $\frac{20}{3}\pi$ b $\frac{4}{3}\pi$ c $\frac{10}{3}\pi$ d 3π e 4π

7 Find the area (in terms of π) of the green shaded sector with an arc length of 2 pi in the circle with radius 3



a $\frac{11}{3}\pi$ b 6π c $\frac{1}{3}\pi$ d 5π e 3π