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Math worksheet on *'Area of a Circle Sector From Arc Length to Area (Equation) (Level 1)'*. Part of a broader unit on *'Geometry - Circle Area, Sectors and Donuts - Intro'*

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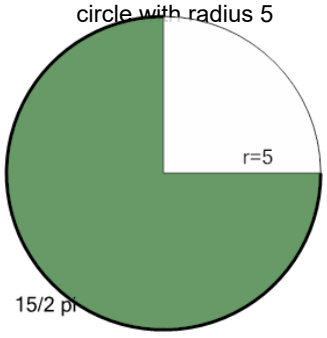
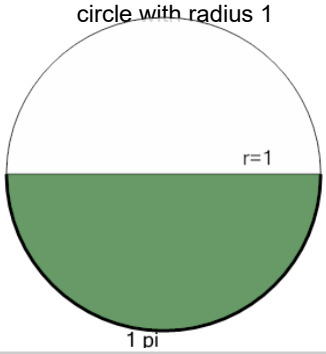
app.mobius.academy/math/units/geometry_circles_sector_donut_area_logic_intro/

1 Find the area (in terms of π) of the green shaded sector with an arc length of 15/2 pi in the circle with radius 5



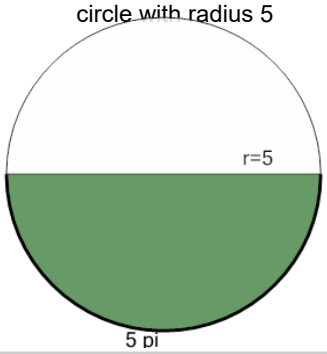
a $\frac{75}{4}\pi$ b $\frac{33}{4}\pi$ c $\frac{27}{2}\pi$ d $\frac{103}{4}\pi$ e 31π

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



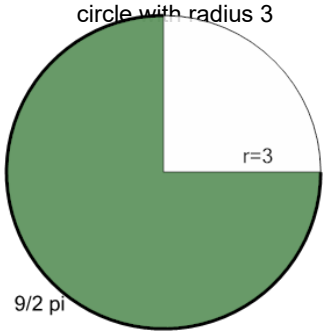
a $\frac{9}{4}\pi$ b 1π c $\frac{7}{4}\pi$ d $\frac{1}{2}\pi$

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



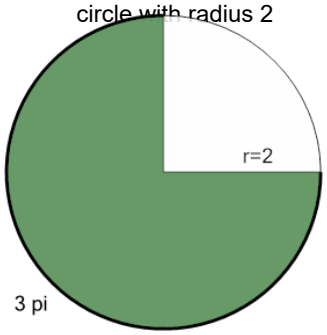
a $\frac{35}{4}\pi$ b $\frac{5}{4}\pi$ c $\frac{45}{2}\pi$ d $\frac{25}{2}\pi$

4 Find the area (in terms of π) of the green shaded sector with an arc length of 9/2 pi in the circle with radius 3



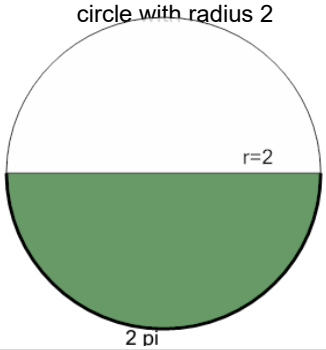
a $\frac{11}{4}\pi$ b $\frac{31}{4}\pi$ c $\frac{39}{4}\pi$ d $\frac{27}{4}\pi$ e $\frac{21}{4}\pi$

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



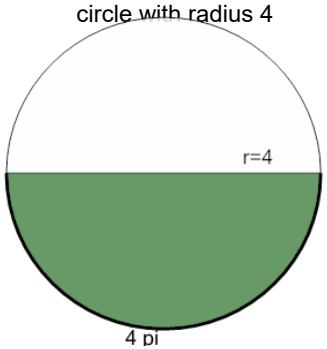
a 5π b $\frac{7}{2}\pi$ c $\frac{1}{2}\pi$ d 3π e 4π

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



a $\frac{3}{4}\pi$ b 2π c $\frac{5}{2}\pi$ d $\frac{13}{4}\pi$ e 3π

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



a $\frac{11}{4}\pi$ b 8π c 2π d $\frac{13}{2}\pi$ e $\frac{41}{4}\pi$