

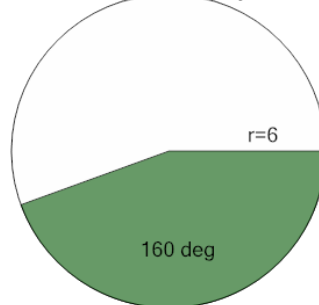


Math worksheet on 'Area of a Circle Sector From Angle to Area (Equation) (Level 3)'. Part of a broader unit on 'Geometry - Circle Area, Sectors and Donuts - Intro'

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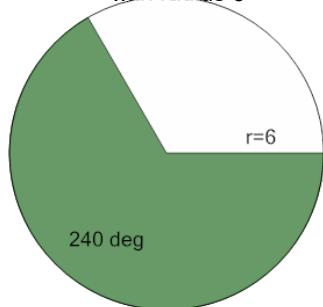
app.mobius.academy/math/units/geometry_circles_sector_donut_area_logic_intro/

- 1** Find the area (in terms of π) of the green shaded sector with an angle of 160° in the circle with radius 6



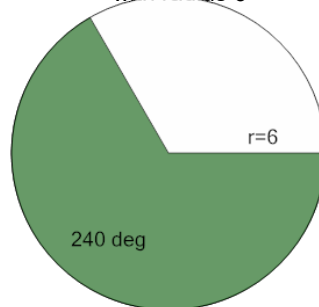
a $\frac{46}{9}\pi$	b 30π	c 16π
d $\frac{130}{9}\pi$		

- 2** Find the area (in terms of π) of the green shaded sector with an angle of 240° in the circle with radius 6



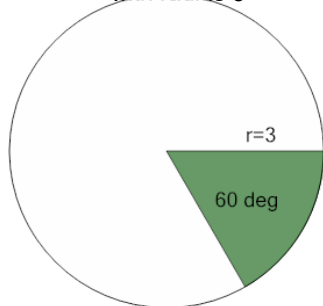
a 10π	b $\frac{86}{3}\pi$	c $\frac{100}{3}\pi$
d 24π	e $\frac{37}{3}\pi$	

- 3** Find the area (in terms of π) of the green shaded sector with an angle of 240° in the circle with radius 6



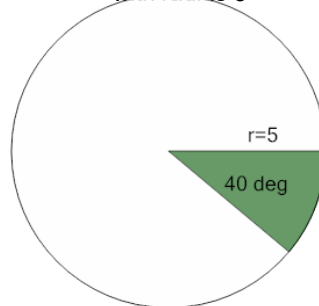
a $\frac{44}{3}\pi$	b 31π	c 24π
d $\frac{107}{3}\pi$		

- 4** Find the area (in terms of π) of the green shaded sector with an angle of 60° in the circle with radius 3



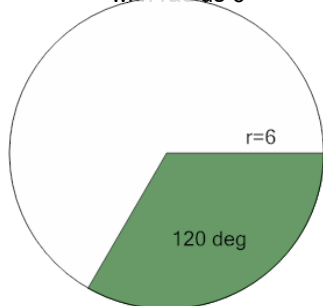
a $\frac{17}{6}\pi$	b $\frac{2}{3}\pi$	c $\frac{8}{3}\pi$
d $\frac{3}{2}\pi$		

- 5** Find the area (in terms of π) of the green shaded sector with an angle of 40° in the circle with radius 5



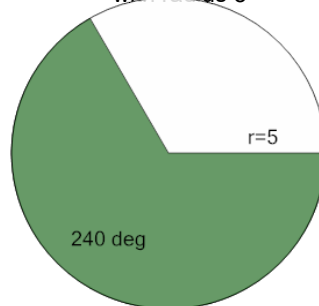
a $\frac{25}{9}\pi$	b $\frac{5}{3}\pi$	c $\frac{13}{3}\pi$
d $\frac{37}{9}\pi$	e $\frac{41}{9}\pi$	

- 6** Find the area (in terms of π) of the green shaded sector with an angle of 120° in the circle with radius 6



a $\frac{46}{3}\pi$	b $\frac{158}{9}\pi$	c 12π
d $\frac{128}{9}\pi$	e $\frac{148}{9}\pi$	

- 7** Find the area (in terms of π) of the green shaded sector with an angle of 240° in the circle with radius 5



a 25π	b $\frac{65}{3}\pi$	c $\frac{95}{3}\pi$
d 15π	e $\frac{50}{3}\pi$	