

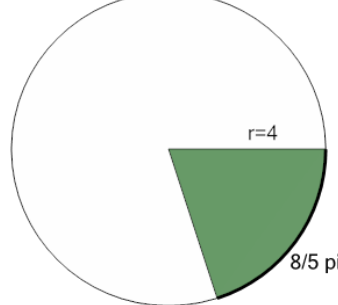


Math worksheet on 'Area of a Circle Sector From Arc Length to Area (Equation) (Level 3)'. Part of a broader unit on 'Geometry - Circle Area, Sectors and Donuts - Intro'

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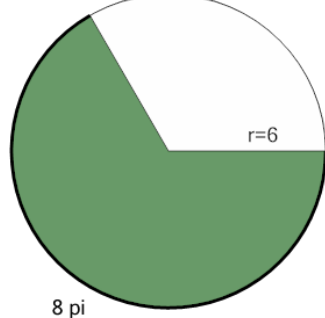
[app.mobius.academy/math/units/geometry\\_circles\\_sector\\_donut\\_area\\_logic\\_intro/](http://app.mobius.academy/math/units/geometry_circles_sector_donut_area_logic_intro/)

- 1 Find the area (in terms of  $\pi$ ) of the green shaded sector with an arc length of  $\frac{8}{5}\pi$  in the circle with radius 4



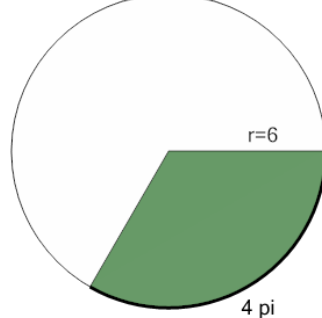
a	b	c
$\frac{16}{5}\pi$	$\frac{6}{5}\pi$	$2\pi$
d		
$3\pi$		

- 2 Find the area (in terms of  $\pi$ ) of the green shaded sector with an arc length of  $8\pi$  in the circle with radius 6



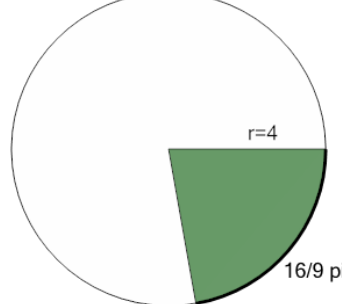
a	b	c
$38\pi$	$24\pi$	$\frac{86}{3}\pi$
d	e	
$45\pi$	$\frac{100}{3}\pi$	

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



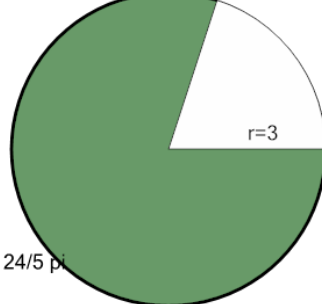
a	b	c
$17\pi$	$9\pi$	$11\pi$
d	e	
$2\pi$	$12\pi$	

- 4 Find the area (in terms of  $\pi$ ) of the green shaded sector with an arc length of  $\frac{16}{9}\pi$  in the circle with radius 4



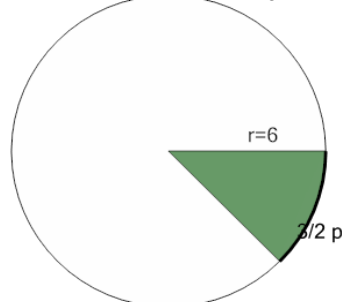
a	b	c
$\frac{41}{9}\pi$	$\frac{20}{9}\pi$	$\frac{59}{9}\pi$
d	e	
$\frac{32}{9}\pi$	$\frac{29}{9}\pi$	

- 5 Find the area (in terms of  $\pi$ ) of the green shaded sector with an arc length of  $\frac{24}{5}\pi$  in the circle with radius 3



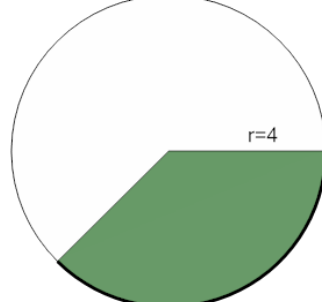
a	b	c
$3\pi$	$\frac{57}{5}\pi$	$\frac{36}{5}\pi$
d	e	
$\frac{27}{5}\pi$	$\frac{63}{5}\pi$	

- 6 Find the area (in terms of  $\pi$ ) of the green shaded sector with an arc length of  $\frac{3}{2}\pi$  in the circle with radius 6



a	b	c
$\frac{9}{2}\pi$	$\frac{9}{8}\pi$	$6\pi$
d	e	
$\frac{39}{8}\pi$	$\frac{3}{4}\pi$	

- 7 Find the area (in terms of  $\pi$ ) of the green shaded sector with an arc length of  $3\pi$  in the circle with radius 4



a	b	c
$\frac{19}{2}\pi$	$\frac{21}{2}\pi$	$\frac{17}{2}\pi$
d	e	
$2\pi$	$6\pi$	