

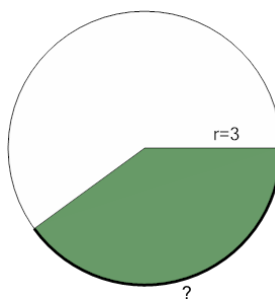


Math worksheet on 'Area of a Circle Sector From Area to Arc Length (Equation) (Level 3)'. Part of a broader unit on 'Geometry - Circle Area, Sectors and Donuts - Intro'

Learn online:

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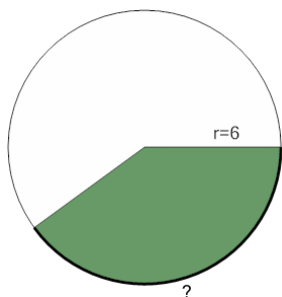
1



Find the arc length of the green shaded sector with area  $18/5 \pi$  in a circle of radius 3

a	$4\pi$	b	$\frac{11}{6}\pi$
c	$\frac{11}{12}\pi$	d	$\frac{1}{7}\pi$
e	$\frac{12}{5}\pi$		

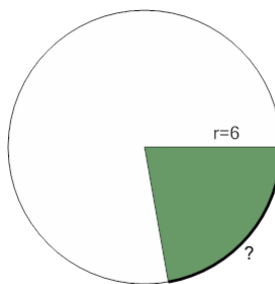
2



Find the arc length of the green shaded sector with area  $72/5 \pi$  in a circle of radius 6

a	$\frac{30}{11}\pi$	b	$6\pi$
c	$\frac{5}{2}\pi$	d	$\frac{28}{13}\pi$
e	$\frac{24}{5}\pi$		

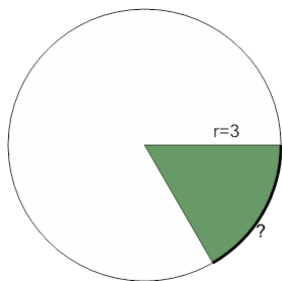
3



Find the arc length of the green shaded sector with area  $8 \pi$  in a circle of radius 6

a	$42\pi$	b	$\frac{14}{3}\pi$
c	$\frac{8}{3}\pi$	d	$2\pi$

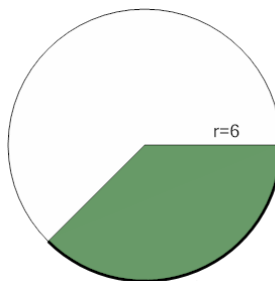
4



Find the arc length of the green shaded sector with area  $3/2 \pi$  in a circle of radius 3

a	$1\pi$	b	$\frac{1}{3}\pi$
c	$\frac{13}{3}\pi$	d	$\frac{1}{4}\pi$
e	$11\pi$		

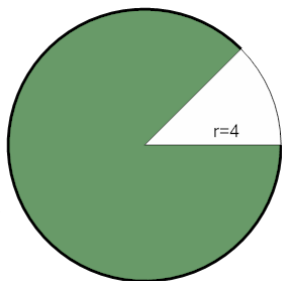
5



Find the arc length of the green shaded sector with area  $27/2 \pi$  in a circle of radius 6

a	$\frac{9}{2}\pi$	b	$\frac{3}{5}\pi$
c	$6\pi$	d	$\frac{15}{7}\pi$
e	$\frac{21}{8}\pi$		

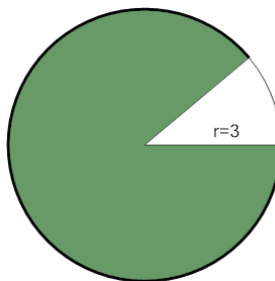
6



Find the arc length of the green shaded sector with area  $14 \pi$  in a circle of radius 4

a	$\frac{2}{3}\pi$	b	$\frac{101}{3}\pi$
c	$7\pi$	d	$\frac{61}{17}\pi$
e	$\frac{61}{5}\pi$		

7



Find the arc length of the green shaded sector with area  $8 \pi$  in a circle of radius 3

a	$\frac{16}{3}\pi$	b	$\frac{16}{4}\pi$
c	$52\pi$	d	$\frac{9}{4}\pi$
e	$5\pi$		