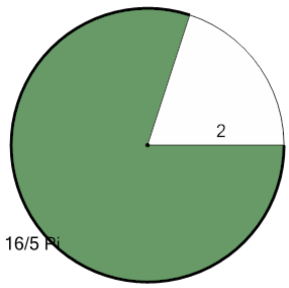
Math worksheet on *'Area of a Part Circle - Radius and Arc Length to Fraction (Pi Value) (Level 1)'*. Part of a broader unit on *'Geometry - Circle Partial Area and Circumference - Intro'*

Learn online:

app.mobius.academy/math/units/geometry_circles_partial_perimeter_area_intro/

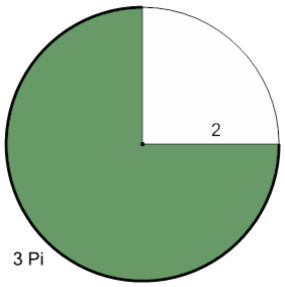
1



What fraction of the circle's area is shaded if the radius is 2 and the arc length is 16/5π?

a	$\frac{4}{5}$	**b**	$\frac{7}{10}$
c	$\frac{1}{5}$	**d**	1
e	$\frac{1}{2}$		

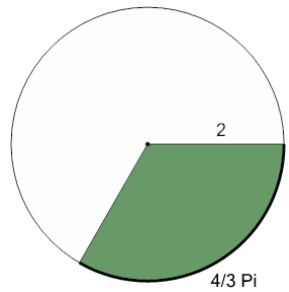
2



What fraction of the circle's area is shaded if the radius is 2 and the arc length is 3π?

a	$\frac{1}{2}$	**b**	$\frac{3}{4}$
c	1	**d**	$\frac{3}{5}$

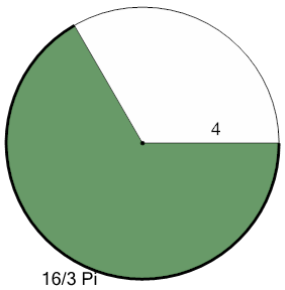
3



What fraction of the circle's area is shaded if the radius is 2 and the arc length is 4/3π?

a	$\frac{1}{2}$	**b**	$\frac{1}{8}$
c	1	**d**	$\frac{1}{3}$

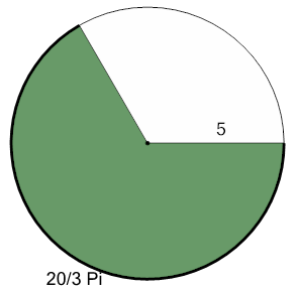
4



What fraction of the circle's area is shaded if the radius is 4 and the arc length is 16/3π?

a	$\frac{1}{2}$	**b**	$\frac{2}{3}$
c	$\frac{1}{5}$	**d**	$\frac{1}{3}$

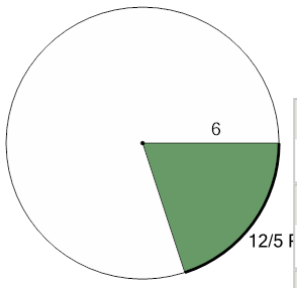
5



What fraction of the circle's area is shaded if the radius is 5 and the arc length is 20/3π?

a	$\frac{2}{5}$	**b**	$\frac{1}{2}$
c	$\frac{3}{5}$	**d**	$\frac{2}{3}$

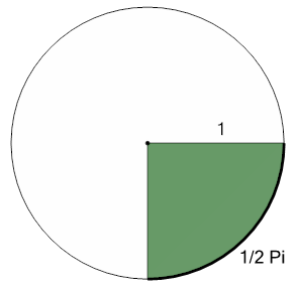
6



What fraction of the circle's area is shaded if the radius is 6 and the arc length is 12/5π?

a	$\frac{1}{4}$	**b**	$\frac{1}{2}$
c	$\frac{1}{8}$	**d**	1
e	$\frac{1}{5}$		

7



What fraction of the circle's area is shaded if the radius is 1 and the arc length is 1/2π?

a	$\frac{1}{2}$	**b**	$\frac{1}{4}$
c	1	**d**	$\frac{1}{8}$