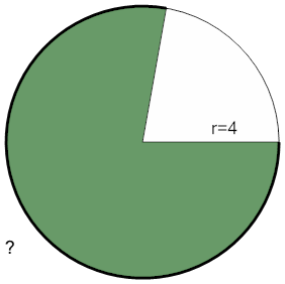
Name

Area of a Circle Sector From Area to Arc Length (Equation)

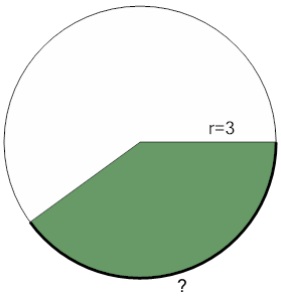
1



Find the arc length of the green shaded sector with area 112/9 π in a circle of radius 4

A	$\frac{56}{9}\pi$	B	$\frac{51}{11}\pi$
C	86π	D	6π
E	$\frac{43}{9}\pi$		

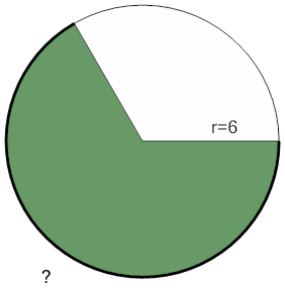
2



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

A	$\frac{12}{5}\pi$	B	$\frac{11}{12}\pi$
C	$\frac{7}{6}\pi$	D	$\frac{10}{3}\pi$
E	$\frac{3}{2}\pi$		

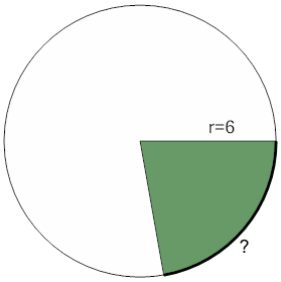
3



Find the arc length of the green shaded sector with area 24 π in a circle of radius 6

A	6π	B	4π
C	8π	D	$\frac{17}{2}\pi$
E	14π		

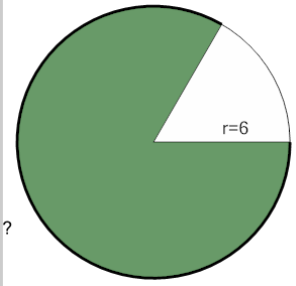
4



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

A	$\frac{8}{13}\pi$	B	16π
C	$\frac{8}{3}\pi$	D	$\frac{20}{7}\pi$
E	$\frac{34}{11}\pi$		

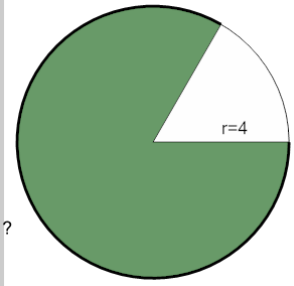
5



Find the arc length of the green shaded sector with area 30 π in a circle of radius 6

A	$\frac{48}{7}\pi$	B	9π
C	22π	D	10π
E	15π		

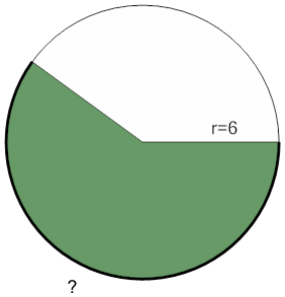
6



Find the arc length of the green shaded sector with area 40/3 π in a circle of radius 4

A	9π	B	$\frac{76}{3}\pi$
C	14π	D	$\frac{20}{3}\pi$
E	$\frac{44}{3}\pi$		

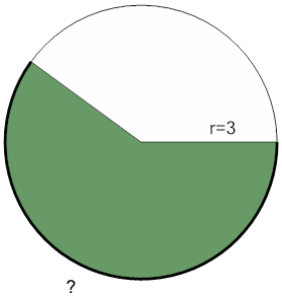
7



Find the arc length of the green shaded sector with area 108/5 π in a circle of radius 6

A	63π	B	$\frac{36}{5}\pi$
C	$\frac{30}{7}\pi$	D	$\frac{39}{7}\pi$
E	18π		

8



Find the arc length of the green shaded sector with area 27/5 π in a circle of radius 3

A	$\frac{16}{7}\pi$	B	$\frac{5}{7}\pi$
C	$\frac{23}{3}\pi$	D	$\frac{18}{5}\pi$
E	$\frac{17}{11}\pi$		