Area of a Circle Sector From Fraction to Area (Equation)
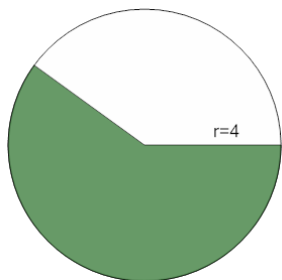
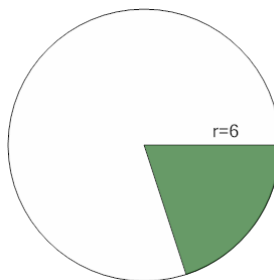**1** Find the area (in terms of π) of the green shaded sector that covers 3/5 of the circle with radius 4

r=4

A	16π	B	$\frac{8}{5}\pi$
C	$\frac{84}{5}\pi$	D	$\frac{48}{5}\pi$

2 Find the area (in terms of π) of the green shaded sector that covers 1/5 of the circle with radius 6

r=6

A	6π	B	$\frac{33}{5}\pi$
C	$\frac{36}{5}\pi$	D	$\frac{51}{5}\pi$
E	$\frac{57}{5}\pi$		

3 Find the area (in terms of π) of the green shaded sector that covers 2/5 of the circle with radius 6

r=6
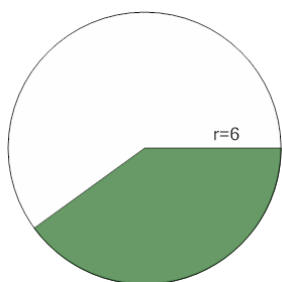
A	13π	B	$\frac{37}{5}\pi$
C	$\frac{72}{5}\pi$	D	$\frac{9}{5}\pi$

4 Find the area (in terms of π) of the green shaded sector that covers 1/3 of the circle with radius 6

r=6
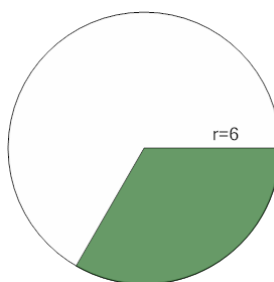
A	$\frac{28}{9}\pi$	B	$\frac{178}{9}\pi$
C	$\frac{188}{9}\pi$	D	12π

5 Find the area (in terms of π) of the green shaded sector that covers 3/5 of the circle with radius 3

r=3
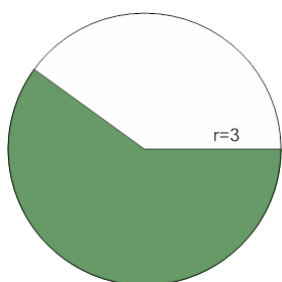
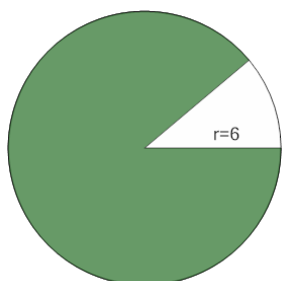| A	$\frac{43}{5}\pi$	B	$\frac{27}{5}\pi$
C	$\frac{13}{5}\pi$	D	$\frac{21}{5}\pi$
E	$\frac{31}{5}\pi$		

6 Find the area (in terms of π) of the green shaded sector that covers 2/9 of the circle with radius 3

r=3
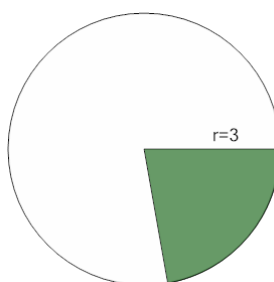
A	$\frac{25}{9}\pi$	B	$\frac{8}{9}\pi$
C	2π	D	$\frac{5}{3}\pi$
E	$\frac{26}{9}\pi$		

7 Find the area (in terms of π) of the green shaded sector that covers 8/9 of the circle with radius 6

r=6

A	$\frac{428}{9}\pi$	B	$\frac{400}{9}\pi$
C	32π	D	$\frac{512}{9}\pi$

8 Find the area (in terms of π) of the green shaded sector that covers 1/3 of the circle with radius 5

r=5

A	$\frac{40}{3}\pi$	B	$\frac{25}{3}\pi$
C	$\frac{85}{6}\pi$	D	10π

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