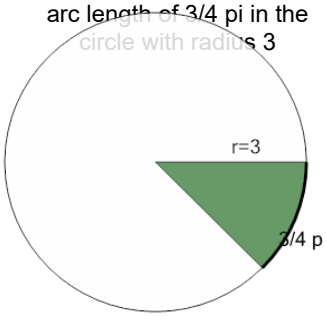
Name

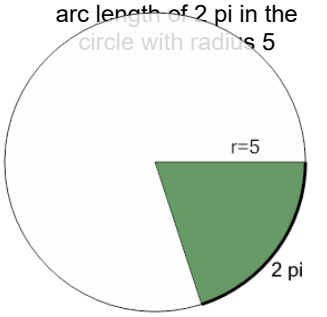
Area of a Circle Sector From Arc Length to Area (Equation)

1 Find the area (in terms of π) of the green shaded sector with an arc length of 3/4 pi in the circle with radius 3



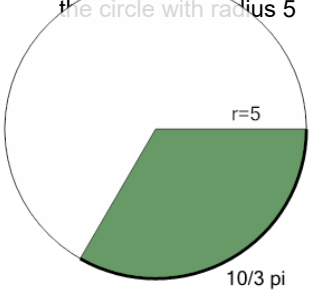
A $\frac{17}{8}\pi$ B $\frac{3}{8}\pi$ C $\frac{1}{2}\pi$ D $\frac{5}{8}\pi$ E $\frac{9}{8}\pi$

2 Find the area (in terms of π) of the green shaded sector with an arc length of 2 pi in the circle with radius 5



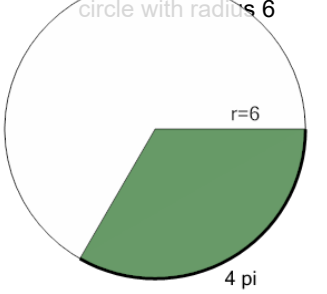
A 5π B 3π C $\frac{23}{5}\pi$ D $\frac{37}{5}\pi$ E $\frac{13}{5}\pi$

3 Find the area (in terms of π) of the green shaded sector with an arc length of 10/3 pi in the circle with radius 5



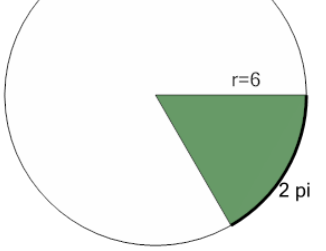
A $\frac{19}{3}\pi$ B $\frac{23}{3}\pi$ C $\frac{13}{3}\pi$ D $\frac{25}{3}\pi$

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



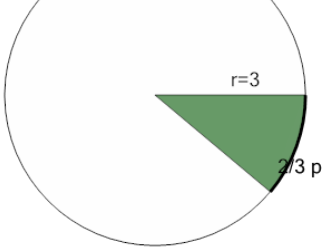
A 17π B 4π C 12π D 11π E 10π

5 Find the area (in terms of π) of the green shaded sector with an arc length of 2 pi in the circle with radius 6



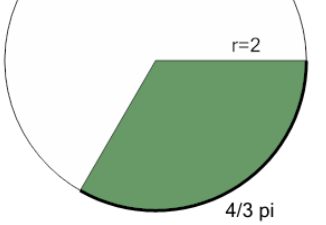
A $\frac{19}{2}\pi$ B 7π C 6π D 5π E $\frac{15}{2}\pi$

6 Find the area (in terms of π) of the green shaded sector with an arc length of 2/3 pi in the circle with radius 3



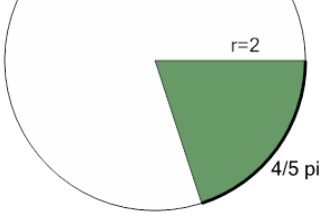
A $\frac{10}{9}\pi$ B $\frac{11}{9}\pi$ C $\frac{13}{9}\pi$ D 1π E $\frac{7}{9}\pi$

7 Find the area (in terms of π) of the green shaded sector with an arc length of 4/3 pi in the circle with radius 2



A 1π B $\frac{1}{3}\pi$ C $\frac{13}{3}\pi$ D $\frac{4}{3}\pi$ E $\frac{5}{3}\pi$

8 Find the area (in terms of π) of the green shaded sector with an arc length of 4/5 pi in the circle with radius 2



A $\frac{11}{5}\pi$ B $\frac{7}{5}\pi$ C $\frac{4}{5}\pi$ D $\frac{2}{5}\pi$