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

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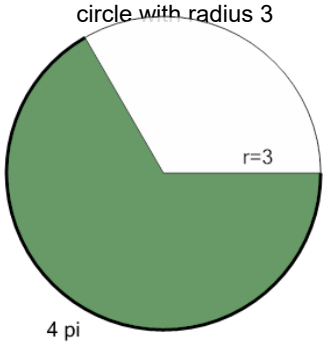
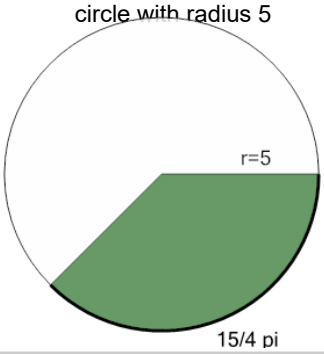
1 Find the area (in terms of π) of the green shaded sector with an arc length of 4 pi in the circle with radius 3



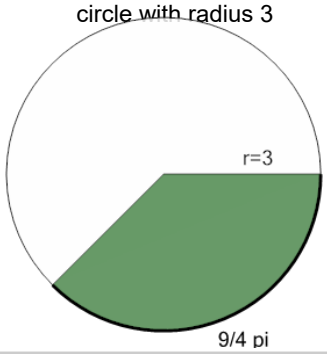
a) 9π b) 5π c) 6π d) $\frac{19}{3}\pi$ e) 8π

2 Find the area (in terms of π) of the green shaded sector with an arc length of 15/4 pi in the circle with radius 5



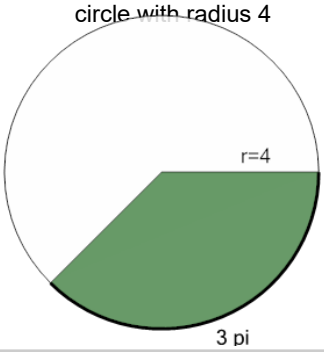
a) $\frac{75}{8}\pi$ b) $\frac{27}{4}\pi$ c) $\frac{103}{8}\pi$ d) $\frac{33}{8}\pi$ e) $\frac{117}{8}\pi$

3 Find the area (in terms of π) of the green shaded sector with an arc length of 9/4 pi in the circle with radius 3



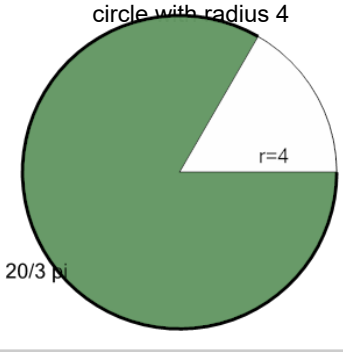
a) $\frac{19}{8}\pi$ b) $\frac{29}{8}\pi$ c) $\frac{21}{8}\pi$ d) $\frac{37}{8}\pi$ e) $\frac{27}{8}\pi$

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



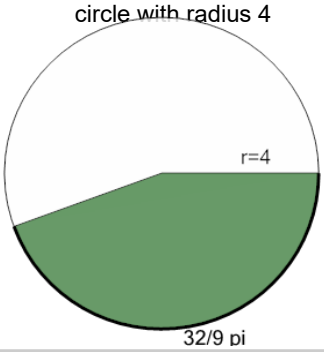
a) 6π b) $\frac{9}{2}\pi$ c) $\frac{3}{2}\pi$ d) $\frac{5}{2}\pi$

5 Find the area (in terms of π) of the green shaded sector with an arc length of 20/3 pi in the circle with radius 4



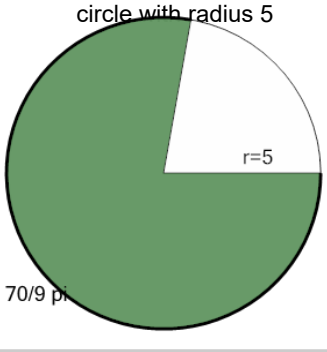
a) $\frac{56}{3}\pi$ b) $\frac{40}{3}\pi$ c) $\frac{68}{3}\pi$ d) $\frac{44}{3}\pi$

6 Find the area (in terms of π) of the green shaded sector with an arc length of 32/9 pi in the circle with radius 4



a) $\frac{40}{9}\pi$ b) $\frac{34}{9}\pi$ c) $\frac{4}{9}\pi$ d) $\frac{106}{9}\pi$ e) $\frac{64}{9}\pi$

7 Find the area (in terms of π) of the green shaded sector with an arc length of 70/9 pi in the circle with radius 5



a) $\frac{260}{9}\pi$ b) $\frac{98}{3}\pi$ c) $\frac{5}{9}\pi$ d) $\frac{175}{9}\pi$ e) $\frac{158}{9}\pi$