

Circumference and Area of Circles
Arc Length and Area of Sectors

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1. Find the circumference of a circle with radius 8, leave answer in terms of π .

- A. 8π B. 12π
C. 16π D. 64π

2. What is the length of the diameter of a circle with circumference 36π meters?

3. Using 3.14 for π , Jim calculated the circumference of his doughnut to be 18.84 cm. What is the radius of his doughnut?

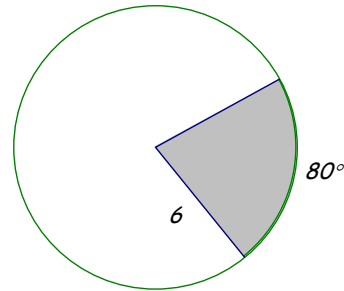
4. Find the area of a circle with diameter 20. Leave answer in terms of π .

5. If the area of a circle is 81π mm², what is the length of a diameter?

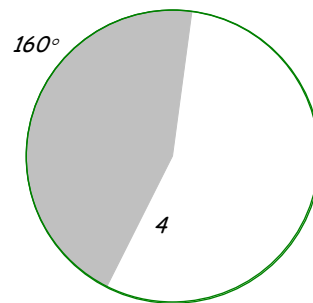
6. The tires on Joe's bike have a diameter of 2 ft. About how many feet will Joe travel in 6 revolutions of his tires?

Find the area of the shaded region in each of the following. Leave answers in terms of π . (7-11)

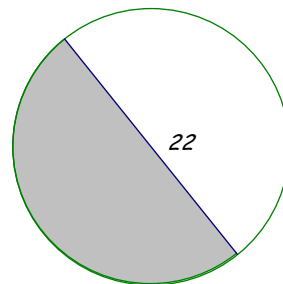
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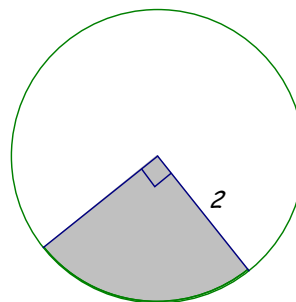
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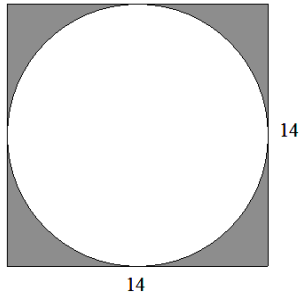
10.



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11.



12. Chelsie has a circular board that has a diameter of 12 inches. If she wants to make it into a clock, how many inches apart should the numbers be?