Handout 2: You Spin My Head Right Round - Answers

- 1. Find the area of a circle with radius 5 m. 25π m²
- 2. Find the area of a circle with circumference 14π ft. 49π ft²
- 3. Find the diameter of a circle that has an area 16π mi². 8 mi
- 4. Find the area of a circle that has a diameter of 22 ft. 121π ft²
- 5. Find the area of a semicircle with diameter 6 in. 4.5π in²
- 6. The area of a circle is 9π cm². What is the circumference? 6π cm

- 7. The area of a circle is 36 cm². Find the diameter. $\frac{12\sqrt{\pi}}{\pi}$ cm
- 8. What is the area of a wheel with a diameter of 18 in? 81π in²
- 9. For an extra fee, the car dealer is willing to upgrade your wheels to be 22 inches in diameter. Compared to a wheel with an 18-inch diameter, how much bigger is the area of this wheel? 40π in² or about 1.5 times larger
- 10. You decide to stick with the 18-inch wheel. After driving the car for a few months, the tires lose pressure and the area is now 64π in². If the wheel is still perfectly circular, what is the tire's radius? 8 in

©2013 Shmoop University, Inc. All rights reserved. For classroom use only. Want to print this out for your classroom? Go for it. All other reproduction and distribution is prohibited.