

Find the circumference and area of each circle. Write each answer with a reasonable number of decimal digits and explain why you chose to write only that many digits.

- 1. r = 6 cm
- 2. r = 7.8 ft
- 3. d = 300 cm
- 4. d = 31.4 yd

For each circle, find the radius to the nearest cm.

- 5. C = 68 in
- 6. C = 1024 cm
- 7.  $A = 500 \text{ in}^2$
- *8*. A = 3875 cm<sup>2</sup>

The target below is 10 feet in diameter. The inside 50-point circle is 2 feet in diameter. Each ring is 1 foot wide. Point values for each ring are listed.



- 9. What is the area of the bull's-eye?
- 10. What proportion of the area of the target is the bull's-eye?
- 11. What is the area of the 10-point ring?
- 12. What is the total area of all of the *shaded* rings (including the bull's-eye)?
- 13. What proportion of the area of the target is shaded?
- 14. What proportion of the area of the target is not shaded?
- 15. Is an archer more likely to score 40 points with two arrows by scoring 10 first and 30 second or by scoring 20 with both arrows? Explain your reasoning.