

SAT Geometry Practice

Circle Area

Name: _____ Date: _____

Directions: Choose the best answer. Show your work. Use $\pi = 3.14$ unless the problem says to leave the answer in terms of π .

1. A circle has a radius of 5 inches. What is its area? Leave your answer in terms of

- π . A. $25\pi \text{ in}^2$
- B. $5\pi \text{ in}^2$
- C. $30\pi \text{ in}^2$
- D. $50\pi \text{ in}^2$

2. A circle has a diameter of 14 cm. What is its area? Leave your answer in terms of

- π . A. $7\pi \text{ cm}^2$
- B. $28\pi \text{ cm}^2$
- C. $35\pi \text{ cm}^2$
- D. $49\pi \text{ cm}^2$

3. A circle has a radius of 8 feet. What is its area? Use $\pi = 3.14$.

- A. 25.12 ft^2
- B. 50.24 ft^2
- C. 200.96 ft^2
- D. 401.92 ft^2

4. The area of a circle is 49π square units. What is its radius?

- A. 3.5
- B. 7
- C. 14
- D. 49

5. The area of a circle is 100π square meters. What is its diameter?

- A. 5 m
- B. 10 m
- C. 20 m
- D. 100 m

6. A circular table has a radius of 3.5 feet. What is its area? Use $\pi = 3.14$.

- A. 10.99 ft^2
- B. 38.47 ft^2
- C. 21.98 ft^2
- D. 76.93 ft^2

7. A circle's radius is doubled. How does its area change?

- A. It doubles
- B. It triples
- C. It becomes 4 times as large
- D. It becomes 8 times as large

8. A circle has a diameter of 20. What is its area in terms of π ?

- A. 100π
- B. 200π
- C. 400π
- D. 4000π

9. A circular flower bed has a radius of 6 meters. What is its area? Use $\pi = 3.14$.

- A. 18.84 m^2
- B. 37.68 m^2
- C. 113.04 m^2
- D. 226.08 m^2

10. The area of a circle is 64π square inches. What is its radius?

- A. 4 in
- B. 8 in
- C. 16 in
- D. 32 in

Answer Key

Question	Answer
1	A
2	D
3	C
4	B
5	C
6	B
7	C
8	A
9	C
10	B