MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Find the area. Leave your answer in terms of pi.

1) A circle with diameter 10 cm
   A) 10.00π cm²  B) 25.00π cm²  C) 100.00π cm²  D) 20.00π cm²

2) A circle with diameter 12.2 ft
   A) 37.21π ft²  B) 148.84π ft²  C) 12.20π ft²  D) 24.40π ft²

3) A circle with radius 4.5 in.
   A) 9.00π in.²  B) 81.00π in.²  C) 18.00π in.²  D) 20.25π in.²

4) A circle with radius 3.75 mi
   A) 56.25π mi²  B) 15.00π mi²  C) 14.06π mi²  D) 7.50π mi²

5) A semicircle with diameter 20 mi
   A) 20.00π mi²  B) 50.00π mi²  C) 40.00π mi²  D) 100.00π mi²

6) A semicircle with radius 9 in.
   A) 40.50π in.²  B) 18.00π in.²  C) 36.00π in.²  D) 81.00π in.²

7) A circle with circumference 18π m
   A) 20.25π m  B) 324π m  C) 72π m  D) 81π m

8) A sector with radius 3 mm and interior angle 96°
   A) \(\frac{4}{5}\)π mm²  B) 9π mm²  C) \(\frac{24}{5}\)π mm²  D) \(\frac{12}{5}\)π mm²

9) A sector with radius 9 mm and interior angle 356°
   A) 81π mm²  B) \(\frac{801}{5}\)π mm²  C) \(\frac{801}{10}\)π mm²  D) \(\frac{89}{10}\)π mm²

10) A ring of width 6 ft surrounding a circle with radius 312 ft
    A) 36π ft²  B) 101,124π ft²  C) 3780π ft²  D) 97,344π ft²
Answer Key
Testname: G1--CW-45

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