Name: $\qquad$

Part I: Multiple Choice. Place the correct answer in the corresponding blank at the end of this section.

1. What is the best estimate for $120^{\circ}$ in radians?
(A) 2.1
(B) 0.7
(C) 2.8
(D) 3.1
$120 \times \frac{\pi}{180}=2.1$
2. What is the best estimate for $135^{\circ}$ in radians? $135 \times \frac{\pi}{180}=$
$\begin{array}{ll}\text { (A) } \frac{3 \pi}{2}\end{array}$
(C) $\frac{3 \pi}{8}$
(D) $\frac{2 \pi}{3}$
3. What is the best estimate for 0.1 radians in degrees?
(A) $0.5^{\circ}$
(B) $1^{\circ}$
(C) $3^{\circ}$

4. What is the best estimate for $\frac{5 \pi}{8}$ is degrees?

$$
\frac{5 \pi}{8} \cdot \frac{180}{\pi}=112.5^{\circ}
$$

(A) $112.5^{\circ}$
(B) $288^{\circ}$
(C) $900^{\circ}$
(D) $1440^{\circ}$
5. What is the best estimate for the central angle in degrees?
(A) $263^{\circ}$
(B) $273^{\circ}$
(C) $283^{\circ}$
(D) $293^{\circ}$

6. What is the best estimate for the central angel in radians?
(A) $\frac{5 \pi}{12}$
(B) $\frac{6 \pi}{5}$
(C) $\frac{5 \pi}{4}$
(D) $\frac{5 \pi}{6}$

7. Imagine that it is now 2 p.m. What time will it be when the minute hand has rotated through $300^{\circ}$ ?
(A) $2: 40$

8. Imagine that it is now 2 p.m. What time will it be when the minute hand has rotated through $\frac{7 \pi}{4}$ radians?
(A) $2: 20$
(B) $2: 52$
(C) $3: 15$
(D) $3: 45$


Part II: Constructed Response. Answer each question in the space provided. Show all workings.
9. Eddie is facing west. What direction will he be facing if he rotates $235^{\circ}$ to his right?

10. For the following pair of angle measures, determine which is greater $75^{\circ}$ or $\frac{1}{2} \pi$ ?

is greater.

