Lesson 10.4 Practice: Inscribed Angles

School Launch · Geometry · Unit 10: Circles · Worksheet A

Calculator allowed

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. An inscribed angle intercepts an arc of $74°$. Find the inscribed angle. EASY

2. An inscribed angle intercepts an arc of $92°$. Find the inscribed angle. EASY

3. An inscribed angle intercepts an arc of $34°$. Find the inscribed angle. EASY

4. Quadrilateral $ABCD$ is inscribed in a circle, with $m\angle A = 108°$ and $m\angle B = 82°$. Find $m\angle C$ and $m\angle D$. MEDIUM

5. Quadrilateral $ABCD$ is inscribed in a circle, with $m\angle A = 76°$ and $m\angle B = 114°$. Find $m\angle C$ and $m\angle D$. MEDIUM

6. Quadrilateral $ABCD$ is inscribed in a circle, with $m\angle A = 115°$ and $m\angle B = 75°$. Find $m\angle C$ and $m\angle D$. MEDIUM

7. Quadrilateral $ABCD$ is inscribed in a circle, with $m\angle A = 107°$ and $m\angle B = 83°$. Find $m\angle C$ and $m\angle D$. MEDIUM

8. Quadrilateral $ABCD$ is inscribed in a circle, with $m\angle A = 57°$ and $m\angle B = 133°$. Find $m\angle C$ and $m\angle D$. HARD

9. Quadrilateral $ABCD$ is inscribed in a circle, with $m\angle A = 97°$ and $m\angle B = 93°$. Find $m\angle C$ and $m\angle D$. HARD

10. Quadrilateral $ABCD$ is inscribed in a circle, with $m\angle A = 51°$ and $m\angle B = 139°$. Find $m\angle C$ and $m\angle D$. HARD