Lesson 6.4 Practice: Rectangles, Rhombuses and Squares

School Launch · Geometry · Unit 6: Quadrilaterals and Polygons · 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. Diagonal $\overline{AC}$ of rectangle $ABCD$ is 8 cm. Find BD and the distance from the intersection point to A.

EASY

2. Diagonal $\overline{AC}$ of rectangle $ABCD$ is 26 cm. Find BD and the distance from the intersection point to A.

EASY

3. Diagonal $\overline{AC}$ of rectangle $ABCD$ is 20 cm. Find BD and the distance from the intersection point to A.

EASY

4. In rhombus $ABCD$, $m\angle BAC = 55°$ (diagonal $\overline{AC}$). Find $m\angle BAD$, $m\angle ABC$, and the angle between the diagonals. MEDIUM

5. In rhombus $ABCD$, $m\angle BAC = 49°$ (diagonal $\overline{AC}$). Find $m\angle BAD$, $m\angle ABC$, and the angle between the diagonals. MEDIUM

6. In rhombus $ABCD$, $m\angle BAC = 64°$ (diagonal $\overline{AC}$). Find $m\angle BAD$, $m\angle ABC$, and the angle between the diagonals. MEDIUM

7. In rhombus $ABCD$, $m\angle BAC = 34°$ (diagonal $\overline{AC}$). Find $m\angle BAD$, $m\angle ABC$, and the angle between the diagonals. MEDIUM

8. In rhombus $ABCD$, $m\angle BAC = 30°$ (diagonal $\overline{AC}$). Find $m\angle BAD$, $m\angle ABC$, and the angle between the diagonals. HARD

9. In rhombus $ABCD$, $m\angle BAC = 40°$ (diagonal $\overline{AC}$). Find $m\angle BAD$, $m\angle ABC$, and the angle between the diagonals. HARD

10. In rhombus $ABCD$, $m\angle BAC = 70°$ (diagonal $\overline{AC}$). Find $m\angle BAD$, $m\angle ABC$, and the angle between the diagonals. HARD