Lesson 6.2 Practice: Properties of Parallelograms

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. In parallelogram $ABCD$, $m\angle A = 78°$. Find $m\angle B$, $m\angle C$ and $m\angle D$. EASY

2. In parallelogram $ABCD$, $m\angle A = 111°$. Find $m\angle B$, $m\angle C$ and $m\angle D$. EASY

3. In parallelogram $ABCD$, $m\angle A = 99°$. Find $m\angle B$, $m\angle C$ and $m\angle D$. EASY

4. In parallelogram $ABCD$, opposite sides measure $3x + 6$ and $2x + 20$. Find x and the length. MEDIUM

5. In parallelogram $ABCD$, opposite sides measure $2x - 1$ and $x + 5$. Find x and the length. MEDIUM

6. In parallelogram $ABCD$, the two halves of one diagonal measure $2x - 10$ and $4x - 32$. Find x and the length. MEDIUM

7. In parallelogram $ABCD$, the two halves of one diagonal measure $2x - 8$ and $4x - 26$. Find x and the length. MEDIUM

8. In parallelogram $ABCD$, opposite sides measure $6x - 4$ and $5x + 11$. Find x and the length. HARD

9. In parallelogram $ABCD$, opposite sides measure $5x - 3$ and $6x - 6$. Find x and the length. HARD

10. In parallelogram $ABCD$, the two halves of one diagonal measure $5x + 10$ and $2x + 40$. Find x and the length. HARD