Lesson 2.3 Practice: Measuring Angles

School Launch · Geometry · Unit 2: Points, Lines, Planes and Angles · 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. $\angle ABD$ and $\angle DBC$ are adjacent; $m\angle ABD = 33°$ and $m\angle ABC = 56°$. Find $m\angle DBC$ and classify $\angle ABC$. EASY

2. $\angle ABD$ and $\angle DBC$ are adjacent; $m\angle ABD = 28°$ and $m\angle ABC = 158°$. Find $m\angle DBC$ and classify $\angle ABC$. EASY

3. $\angle ABD$ and $\angle DBC$ are adjacent; $m\angle ABD = 126°$ and $m\angle ABC = 158°$. Find $m\angle DBC$ and classify $\angle ABC$. EASY

4. $m\angle ABD = (2x + 0)°$, $m\angle DBC = (3x + 10)°$ and $m\angle ABC = 50°$. Find x and each angle.

MEDIUM

5. $m\angle ABD = (4x + 8)°$, $m\angle DBC = (3x - 3)°$ and $m\angle ABC = 47°$. Find x and each angle.

MEDIUM

6. $m\angle ABD = (3x - 8)°$, $m\angle DBC = (3x + 4)°$ and $m\angle ABC = 104°$. Find x and each angle.

MEDIUM

7. $m\angle ABD = (3x + 0)°$, $m\angle DBC = (2x - 8)°$ and $m\angle ABC = 77°$. Find x and each angle.

MEDIUM

8. $m\angle ABD = (2x - 3)°$, $m\angle DBC = (3x + 10)°$ and $m\angle ABC = 82°$. Find x and each angle.

HARD

9. $m\angle ABD = (4x - 10)°$, $m\angle DBC = (1x + 10)°$ and $m\angle ABC = 40°$. Find x and each angle.

HARD

10. $m\angle ABD = (2x + 5)°$, $m\angle DBC = (2x - 7)°$ and $m\angle ABC = 46°$. Find x and each angle.

HARD