Lesson 2.2 Practice: Measuring and Constructing Segments

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. B is between A and C. $AB = 4$ and $BC = 23$. Find AC. EASY

2. On a number line, $A = 3$ and $B = -7$. Find the coordinate of the midpoint and AB. EASY

3. B is between A and C. $AB = 22$ and $BC = 23$. Find AC. EASY

4. $M(-5, -2)$ is the midpoint of $\overline{AB}$, and $A(2, -7)$. Find B. MEDIUM

5. B is between A and C. $AB = 3x - 6$, $BC = 5x - 6$ and $AC = 84$. Find x and AB. MEDIUM

6. $M(-1, -4)$ is the midpoint of $\overline{AB}$, and $A(4, 6)$. Find B. MEDIUM

7. B is between A and C. $AB = x + 5$, $BC = 2x - 4$ and $AC = 19$. Find x and AB. MEDIUM

8. $M(3, -3)$ is the midpoint of $\overline{AB}$, and $A(-3, -3)$. Find B. HARD

9. B is between A and C. $AB = 5x - 4$, $BC = x - 4$ and $AC = 22$. Find x and AB. HARD

10. $M(1, 2)$ is the midpoint of $\overline{AB}$, and $A(8, -8)$. Find B. HARD