Lesson 2.1 Practice: Points, Lines and Planes

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. $AB = 2$ and $BC = 47$. Find AC. EASY

2. On a number line, $A = -1$ and $B = -13$. Find the coordinate of the midpoint and AB. EASY

3. B is between A and C. $AB = 9$ and $BC = 67$. Find AC. EASY

4. $M(-2, 0)$ is the midpoint of $\overline{AB}$, and $A(2, -3)$. Find B. MEDIUM

5. B is between A and C. $AB = 2x - 1$, $BC = 5x + 1$ and $AC = 21$. Find x and AB. MEDIUM

6. $M(-6, -1)$ is the midpoint of $\overline{AB}$, and $A(0, 2)$. Find B. MEDIUM

7. B is between A and C. $AB = x + 5$, $BC = 2x - 1$ and $AC = 16$. Find x and AB. MEDIUM

8. $M(6, 1)$ is the midpoint of $\overline{AB}$, and $A(-5, 4)$. Find B. HARD

9. B is between A and C. $AB = 3x - 1$, $BC = x + 2$ and $AC = 21$. Find x and AB. HARD

10. $M(2, 1)$ is the midpoint of $\overline{AB}$, and $A(6, -7)$. Find B. HARD