Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A2: Measuring and Constructing Segments

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| **Objectives:** | Use length and midpoint of a segment.  Construct midpoints and congruent segments. |
| **Develop the Segment Addition Postulate:** |  |
| **Segment Addition Postulate:** | Postulate: If B is between A and C, then AB + BC = AC. |
| **Example 3:** | 1. B is between A and C, AC=14, and BC=11.4. Find AB.      1. S is between R and T. Find RT. 2. B is the midpoint of AC. AB=5x and BC=3x+4. Find AB, BC, and AC. |
| **Compare and Contrast:** | |  |  |  | | --- | --- | --- | |  | **B is between A and C.** | **B is the midpoint of .** | | **Sketch** |  |  | | **Equation** |  |  | |
| **Challenge Questions:** | 1. HJ is twice JK. J is between H and K. If HJ = 4x and HK = 78, find JK. 2. A, D, N, and X are collinear points. D is between N and A. NA + AX = NX. Draw and diagram that represents this information. 3. Given that J, K, and L are collinear and that K is between J and L, is it possible that JK = JL? If so, draw an example. If not, explain. |