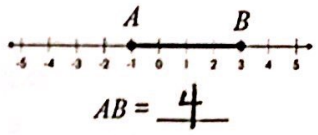
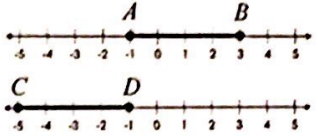
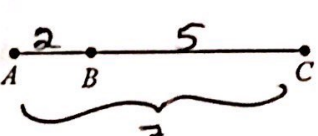
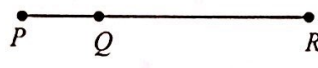
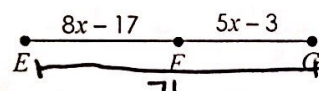
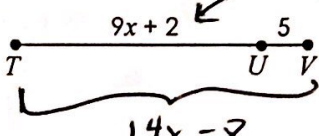
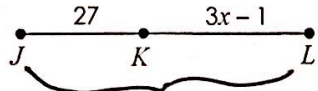
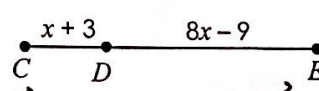


| | |
|--------|--------|
| Name: | Date: |
| Topic: | Class: |

| Main Ideas/Questions | Notes/Examples |
|-----------------------------------|---|
| MEASURING SEGMENTS | <p>The distance between two points A and B be written as <u>the length of \overline{AB}</u> or <u>AB</u>. <i>no symbol means length</i></p>  |
| CONGRUENT SEGMENTS | <p>If $AB = CD$, then the segments are congruent. This is written as $\overline{AB} \cong \overline{CD}$.</p>  |
| SEGMENT ADDITION Postulate | <p>If A, B, and C, are collinear points and B is between A and C, then</p> $AB + BC = AC$  |
| Examples | <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Use the diagram below for questions 1 and 2.</p>  </div> <div style="width: 50%;"> <p>1. If $PQ = 9$ and $QR = 28$, find PR. $9 + 28 = 37$</p> <p>2. If $QR = 17$ and $PR = 21$, find PQ. $21 - 17 = 4$</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;"> <p>3. If $EG = 71$, find the value of x.</p>  <p>$8x - 17 + 5x - 3 = 71$ $13x - 20 = 71$ $13x = 91$ $x = 7$</p> </div> <div style="width: 50%;"> <p>4. If $TV = 14x - 8$, find TU.</p>  <p>$9x + 2 + 5 = 14x - 8$ $9x + 7 = 14x - 8$ $5x = 15$ $x = 3$ $9(3) + 2 = 29$</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;"> <p>5. If $JL = 5x + 2$, find JL.</p>  <p>$27 + 3x - 1 = 5x + 2$ $3x + 26 = 5x + 2$ $2x = 24$ $x = 12$ $5(12) + 2 = 62$</p> </div> <div style="width: 50%;"> <p>6. If $CE = 7x + 4$, find the value of x.</p>  <p>$x + 3 + 8x - 9 = 7x + 4$ $9x - 6 = 7x + 4$ $2x = 10$ $x = 5$</p> </div> </div> |