**ANSWERS**

**Find the length of each segment using a ruler.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1.** |  | **2.** |  | **3.** |  |
|  |  |  |  |  |  |

**Find the length of each segment using the number line. Determine whether each of the segments is congruent.**

|  |  |
| --- | --- |
| **4.** | **0**  **1**  **2**  **3**  **4**  **-1**  **-2**  **-3**  **-4**  **5**  **6**  **-5**  **-6** |
|  |  |
| **5.** | **0**  **1**  **2**  **3**  **4**  **-1**  **-2**  **-3**  **-4**  **5**  **6**  **-5**  **-6** |
|  | There are not congruent segments. |
| **.** | **0**  **1**  **2**  **3**  **4**  **-1**  **-2**  **-3**  **-4**  **5**  **6**  **-5**  **-6** |
|  |  |

**Find the length of each segment using a segment addition postulate.** **Draw a diagram to represent the situation.**

|  |  |  |  |
| --- | --- | --- | --- |
| **7.** | Point is between pointsand  The points are collinear. |  |  |
| **8.** | Point is between pointsand  The points are collinear. |  |  |

**Find the value of and then, find the length of each segment using segment addition postulate.**

|  |  |  |  |
| --- | --- | --- | --- |
| **9.** | Point is between pointsand  The points are collinear. |  |  |
|  |  |  |  |
| **10.** | Point is between pointsand  The points are collinear. |  |  |
|  |  |  |  |

**Find the length of each segment. Draw a diagram to represent the situation.**

|  |  |  |  |
| --- | --- | --- | --- |
| **11.** | Point is the midpoint of segment |  |  |
| **12.** | Point is the midpoint of segment |  |  |

**Find the value of and then find the length of each segment. Draw a diagram to represent the situation.**

|  |  |  |  |
| --- | --- | --- | --- |
| **13.** | Point is midpoint of segment |  |  |
|  |  |  |  |
| **14.** | Point is midpoint of segment |  |  |
|  |  |  |  |

**Find the coordinate of the midpoint of each segment.**

|  |  |  |
| --- | --- | --- |
| **15.** | **3**  **4**  **2**  **1**  **0**  **-1**  **-2**  **-3** | The coordinate of the midpoint ofis |
| **16.** | **3**  **4**  **2**  **1**  **0**  **-1**  **-2**  **-3** | The coordinate of the midpoint ofis |

**Divide the line segment in the ratio given by putting a dot at the partition.**

|  |  |  |
| --- | --- | --- |
| **17.** |  |  |
| **18.** |  |  |