## Solving Linear Equations (B)

### ANSWERS

**Section A**

<table>
<thead>
<tr>
<th></th>
<th>Equation</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$7x + 9 = 23$</td>
<td>$x = 2$</td>
</tr>
<tr>
<td>2</td>
<td>$5x + 7 = 42$</td>
<td>$x = 7$</td>
</tr>
<tr>
<td>3</td>
<td>$4x + 3 = 51$</td>
<td>$x = 12$</td>
</tr>
<tr>
<td>4</td>
<td>$9x + 5 = 41$</td>
<td>$x = 4$</td>
</tr>
<tr>
<td>5</td>
<td>$4x + 2 = 34$</td>
<td>$x = 8$</td>
</tr>
<tr>
<td>6</td>
<td>$11x + 3 = 36$</td>
<td>$x = 3$</td>
</tr>
<tr>
<td>7</td>
<td>$10x + 2 = 72$</td>
<td>$x = 7$</td>
</tr>
<tr>
<td>8</td>
<td>$7x + 3 = 52$</td>
<td>$x = 7$</td>
</tr>
<tr>
<td>9</td>
<td>$6x + 5 = 17$</td>
<td>$x = 2$</td>
</tr>
<tr>
<td>10</td>
<td>$4x + 7 = 9$</td>
<td>$x = 0.5$</td>
</tr>
</tbody>
</table>

**Section B**

<table>
<thead>
<tr>
<th></th>
<th>Equation</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$1 + 6x = 19$</td>
<td>$x = 3$</td>
</tr>
<tr>
<td>2</td>
<td>$9 + 7x = 30$</td>
<td>$x = 3$</td>
</tr>
<tr>
<td>3</td>
<td>$3 + 2x = 17$</td>
<td>$x = 7$</td>
</tr>
<tr>
<td>4</td>
<td>$1 + 5x = 71$</td>
<td>$x = 12$</td>
</tr>
<tr>
<td>5</td>
<td>$5 + 3x = 32$</td>
<td>$x = 9$</td>
</tr>
<tr>
<td>6</td>
<td>$4 + 5x = 44$</td>
<td>$x = 8$</td>
</tr>
<tr>
<td>7</td>
<td>$23 = x + 8$</td>
<td>$x = 15$</td>
</tr>
<tr>
<td>8</td>
<td>$28 = 3x + 19$</td>
<td>$x = 10$</td>
</tr>
<tr>
<td>9</td>
<td>$53 = 8x + 5$</td>
<td>$x = 16$</td>
</tr>
<tr>
<td>10</td>
<td>$13 = 11 + 4x$</td>
<td>$x = 0.5$</td>
</tr>
</tbody>
</table>

**Section C**

<table>
<thead>
<tr>
<th></th>
<th>Equation</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$4x - 1 = 31$</td>
<td>$x = 8$</td>
</tr>
<tr>
<td>2</td>
<td>$3x - 4 = 29$</td>
<td>$x = 11$</td>
</tr>
<tr>
<td>3</td>
<td>$6x - 5 = 31$</td>
<td>$x = 6$</td>
</tr>
<tr>
<td>4</td>
<td>$8x - 2 = 46$</td>
<td>$x = 6$</td>
</tr>
<tr>
<td>5</td>
<td>$2x - 7 = 21$</td>
<td>$x = 14$</td>
</tr>
<tr>
<td>6</td>
<td>$7x - 3 = 18$</td>
<td>$x = 3$</td>
</tr>
<tr>
<td>7</td>
<td>$9x - 4 = 32$</td>
<td>$x = 4$</td>
</tr>
<tr>
<td>8</td>
<td>$5x - 1 = 64$</td>
<td>$x = 13$</td>
</tr>
<tr>
<td>9</td>
<td>$12x - 9 = 39$</td>
<td>$x = 4$</td>
</tr>
<tr>
<td>10</td>
<td>$2x - 1 = 2$</td>
<td>$x = 1.5$</td>
</tr>
</tbody>
</table>

**Section D**

<table>
<thead>
<tr>
<th></th>
<th>Equation</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$x - 3 = -2$</td>
<td>$x = 1$</td>
</tr>
<tr>
<td>2</td>
<td>$x - 5 = -1$</td>
<td>$x = 4$</td>
</tr>
<tr>
<td>3</td>
<td>$x - 6 = -4$</td>
<td>$x = 2$</td>
</tr>
<tr>
<td>4</td>
<td>$x + 3 = 2$</td>
<td>$x = -1$</td>
</tr>
<tr>
<td>5</td>
<td>$x + 9 = 4$</td>
<td>$x = -5$</td>
</tr>
<tr>
<td>6</td>
<td>$x + 10 = -5$</td>
<td>$x = -15$</td>
</tr>
<tr>
<td>7</td>
<td>$2x - 3 = -9$</td>
<td>$x = -3$</td>
</tr>
<tr>
<td>8</td>
<td>$2x - 10 = -2$</td>
<td>$x = -4$</td>
</tr>
<tr>
<td>9</td>
<td>$2x - 18 = -20$</td>
<td>$x = -1$</td>
</tr>
<tr>
<td>10</td>
<td>$2x + 5 = 1$</td>
<td>$x = -2$</td>
</tr>
<tr>
<td>11</td>
<td>$2x + 14 = 4$</td>
<td>$x = -5$</td>
</tr>
</tbody>
</table>

**Section E**

<table>
<thead>
<tr>
<th></th>
<th>Equation</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$5 - x = 2$</td>
<td>$x = 3$</td>
</tr>
<tr>
<td>2</td>
<td>$9 - x = 5$</td>
<td>$x = 4$</td>
</tr>
<tr>
<td>3</td>
<td>$6 - x = 3$</td>
<td>$x = 3$</td>
</tr>
<tr>
<td>4</td>
<td>$8 - x = 14$</td>
<td>$x = 6$</td>
</tr>
<tr>
<td>5</td>
<td>$2 - x = 15$</td>
<td>$x = -13$</td>
</tr>
<tr>
<td>6</td>
<td>$7 - x = 21$</td>
<td>$x = -14$</td>
</tr>
<tr>
<td>7</td>
<td>$3 - 2x = 5$</td>
<td>$x = -1$</td>
</tr>
<tr>
<td>8</td>
<td>$5 - 2x = 15$</td>
<td>$x = -5$</td>
</tr>
<tr>
<td>9</td>
<td>$8 - 2x = 12$</td>
<td>$x = -2$</td>
</tr>
<tr>
<td>10</td>
<td>$2 - 3x = 14$</td>
<td>$x = -4$</td>
</tr>
<tr>
<td>11</td>
<td>$6 - 3x = 27$</td>
<td>$x = -7$</td>
</tr>
</tbody>
</table>

**Section F**

<table>
<thead>
<tr>
<th></th>
<th>Equation</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$3x - 1 = 14$</td>
<td>$x = 5$</td>
</tr>
<tr>
<td>2</td>
<td>$x - 4 = -3$</td>
<td>$x = 1$</td>
</tr>
<tr>
<td>3</td>
<td>$3 + 2x = 17$</td>
<td>$x = 7$</td>
</tr>
<tr>
<td>4</td>
<td>$7x - 6 = 50$</td>
<td>$x = 8$</td>
</tr>
<tr>
<td>5</td>
<td>$1 - x = 6$</td>
<td>$x = -5$</td>
</tr>
<tr>
<td>6</td>
<td>$8 + 5x = 63$</td>
<td>$x = 11$</td>
</tr>
<tr>
<td>7</td>
<td>$16 - 2x = 40$</td>
<td>$x = 12$</td>
</tr>
<tr>
<td>8</td>
<td>$34 = 6 - 4x$</td>
<td>$x = -7$</td>
</tr>
<tr>
<td>9</td>
<td>$34 = -6 + 5x$</td>
<td>$x = 8$</td>
</tr>
<tr>
<td>10</td>
<td>$6 + 11x = -5$</td>
<td>$x = -1$</td>
</tr>
<tr>
<td>11</td>
<td>$8x + 42 = -54$</td>
<td>$x = -12$</td>
</tr>
<tr>
<td>12</td>
<td>$29 = 3 + 4x$</td>
<td>$x = -8$</td>
</tr>
<tr>
<td>13</td>
<td>$6x - 16 = -70$</td>
<td>$x = -9$</td>
</tr>
<tr>
<td>14</td>
<td>$6x - 16 = -70$</td>
<td>$x = -9$</td>
</tr>
<tr>
<td>15</td>
<td>$9x - 4x = -53$</td>
<td>$x = -11$</td>
</tr>
</tbody>
</table>

©cazoom! educational resources

[www.cazoommathsworksheets.com](http://www.cazoommathsworksheets.com)  
Algebra . Level 5 . Equations . Solving Linear Equations (B)