**Directions**: Solve each of the *absolute value* equations below. Test each possible solution by replacing the variable with each possible value. For your answer choose the values that make the equation true. Circle the correct answer.

Examples: $ x+7  = 10$		x-2  = 22	
x = 3 and $x = -17$		x = 24 and $x = -20$	
because $ 3+7  = 10$ and $ -17+7  = 10$ because $ 24-2  = 22$ and $ -20-2  = 22$			
1) $ x+9  = 10$	2)   x-8  = 6	3) $ x+3  = 13$	4)   x+1  = 9
<ul> <li>a) x = 2 and x = 8</li> <li>b) x = 1 and x = -19</li> <li>c) x = -3 and x = 10</li> </ul>	<ul> <li>a) x = 11 and x = -10</li> <li>b) x = 0 and x = 6</li> <li>c) x = 14 and x = 2</li> </ul>	<ul> <li>a) x = 10 and x = -16</li> <li>b) x = 6 and x = 3</li> <li>c) x = -4 and x = 2</li> </ul>	<ul> <li>a) x = 8 and x = -7</li> <li>b) x = 8 and x = -11</li> <li>c) x = 8 and x = -10</li> </ul>
5) $ 2x+4  = 10$	6)   x-6  = 6	7) $ 2x+3  = 13$	8)   x+1  = 1
<ul> <li>a) x = 3 and x = -7</li> <li>b) x = 1 and x = -9</li> <li>c) x = -3 and x = 10</li> </ul>	<ul> <li>a) x = 0 and x = 12</li> <li>b) x = 1 and x = 6</li> <li>c) x = 14 and x = 4</li> </ul>	<ul> <li>a) x = 1 and x = -6</li> <li>b) x = -6 and x = 3</li> <li>c) x = -8 and x = 5</li> </ul>	<ul> <li>a) x = -2 and x = -7</li> <li>b) x = -2 and x = 0</li> <li>c) x = -2 and x = -1</li> </ul>
9) $ x+9  = 14$	10) $ x-6  = 8$	11) $ x-3 =13$	12) $ x-1  = 9$
<ul> <li>a) x = -19 and x = 1</li> <li>b) x = 5 and x = -23</li> <li>c) x = -3 and x = -19</li> </ul>	<ul> <li>a) x = 14 and x = -2</li> <li>b) x = 2 and x = 14</li> <li>c) x = -14 and x = 2</li> </ul>	<ul> <li>a) x = -10 and x = 16</li> <li>b) x = 16 and x = 3</li> <li>c) x = -16 and x = 10</li> </ul>	<ul> <li>a) x = 8 and x = -7</li> <li>b) x = 8 and x = -11</li> <li>c) x = -8 and x = 10</li> </ul>
13) $ 4x+4  = 20$	14) $ 10x - 10  = 60$	15) $ 8x+4  = 28$	16) $ x+1  = 90$
<ul> <li>a) x = 2 and x = 8</li> <li>b) x = 4 and x = -6</li> <li>c) x = -3 and x = 1</li> </ul>	<ul> <li>a) x = 1 and x = -10</li> <li>b) x = -5 and x = 7</li> <li>c) x = 4 and x = 2</li> </ul>	<ul> <li>a) x = 3 and x = -4</li> <li>b) x = 6 and x = 3</li> <li>c) x = -4 and x = 2</li> </ul>	<ul> <li>a) x = -8 and x = 89</li> <li>b) x = -9 and x = 89</li> <li>c) x = -91 and x = 89</li> </ul>

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