

28	$x \leq -4$	<div>M1</div> <div> <p>for a correct first step working with an equation or inequality</p> <p>eg <math>x + 11 - 11 \leq 5 - \frac{1}{2}x - 11</math></p> <p><b>or</b> <math>x + 11 + \frac{1}{2}x \leq 5 - \frac{1}{2}x + \frac{1}{2}x</math></p> <p><b>or</b> <math>2 \times x + 2 \times 11 \leq 2 \times 5 - 2 \times \frac{1}{2}x</math></p> </div> <div>M1</div> <div> <p>for a full method to solve the inequality</p> <p><b>or</b> for a critical value of <math>-4</math></p> </div> <div>A1</div> <div> <p>for <math>x \leq -4</math> oe as final answer</p> </div>	<p>Can work with an equation or incorrect inequality symbol for both M marks</p> <p>Allow for subtracting 5 from both sides or subtracting <math>x</math> from both sides.</p> <p>For M marks step must be carried out not just intention shown.</p> <p>For example, if you see</p> $\begin{array}{rcl} x + 11 & \leq & 5 - \frac{1}{2}x \\ -11 & & -11 \end{array}$ <p>Award M1 for:</p> $x \leq k - \frac{1}{2}x$ <p>with <math>k \neq 5, k \neq 16</math></p> <p>or indicating <math>+\frac{1}{2}x</math> reaching</p> $kx + 11 \leq 5$ <p>with <math>k \neq \frac{1}{2}, k \neq 1</math></p> <p>or indicating multiplying by 2 obtaining an equation or inequality with three of four terms correct and no term unchanged.</p> <p>Award 2 marks for answer of <math>x? - 4</math> where ? is an = or any incorrect inequality symbol, or for answer shown as just <math>-4</math></p>
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