

<p><b>Countdown!</b></p> <p><i>Children take turns to subtract 11, 12 or 13 from a 2-digit number greater than 50. They develop and explain strategies to help them win by reaching a number &lt;10 first.</i></p>	<p><b>Skills practised:</b></p> <ul style="list-style-type: none"> <li>Subtracting 11, 12 or 13 from 2-digit numbers.</li> </ul>
<p><b>Conjecture:</b> <i>We can work out a way to help us win the game.</i></p>	
<p><b>What to do:</b></p> <p><i>Children play the game in pairs or a group of three.</i></p> <ol style="list-style-type: none"> <li>Take turns to play.</li> <li>One of you writes a 2-digit starting number. It must be bigger than 50, e.g. 72.</li> <li>The next person has to subtract either 11, 12 or 13 and write the new number underneath, e.g. you subtract 12 from 72 and write/ say 60.</li> <li>The first person must continue, subtracting 11, 12 or 13 from 60, e.g. they subtract 13 from 60 and write/ say 47.</li> <li>Continue like this.</li> <li>The first person to reach a number <b>less than 10</b> is the winner.</li> <li>Play again, starting with a different number.</li> </ol> <p>Discuss anything you notice about useful strategies.</p> <ul style="list-style-type: none"> <li>- Are there any key numbers to think about [<b>HINT</b> Does it matter who writes 22...?]</li> <li>- Does the starting number make a difference to the outcome?</li> </ul> <ol style="list-style-type: none"> <li>Play several times and start to refine your strategies.</li> <li>Discuss good ways of becoming the winner</li> </ol> <p><b>CHALLENGE!</b> Write some advice to a new player. What will you tell them to do, or to watch out for?</p>	
<p><b>Aims</b></p> <ul style="list-style-type: none"> <li>- To think ahead and plan what might happen.</li> <li>- To develop strategies to win a game.</li> </ul>	<p><b>Minimum number of calculations expected</b></p> <p>20-30</p>

