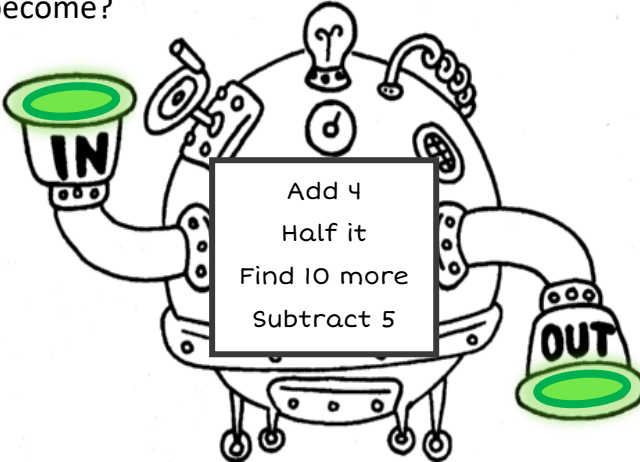
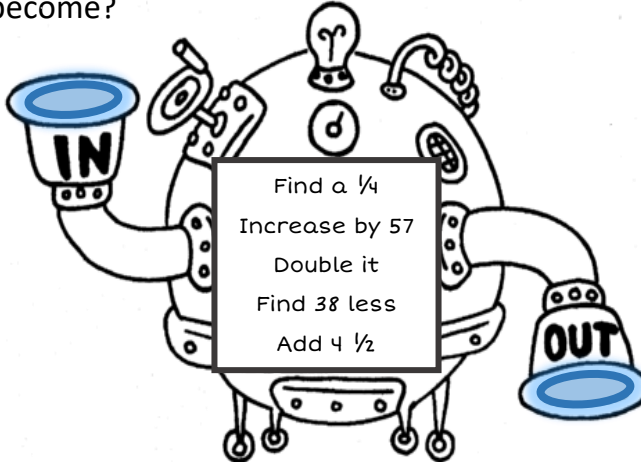
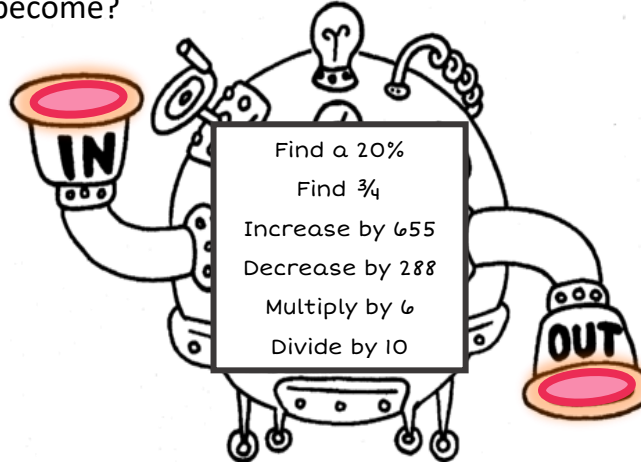


# ANSWERS



**Maths Focus:** Mental and written calculation of all four operations; finding fractions; solving percentages

**Helpful Hints:** Each time you do an operation, write down how the number has changed so you don't lose track of your workings

Level 1	Level 2	Level 3
<p>Ruby has a special number machine. She puts some numbers through the machine. Can you help her figure out what the numbers will become?</p>  <p>A cartoon number machine with a green 'IN' cup on the left and a green 'OUT' cup on the right. The machine's body is a rounded rectangle with various mechanical details. A central panel lists the operations: 'Add 4', 'Half it', 'Find 10 more', and 'Subtract 5'.</p> <ol style="list-style-type: none"><li>1. If Ruby puts the number 6 in the machine, what number will come out? <b>10</b></li><li>2. If Ruby puts the number 22 in the machine, what number will come out? <b>18</b></li><li>3. If Ruby puts the number 38 in the machine, what number will come out? <b>26</b></li></ol>	<p>Ruby has a special number machine. She puts some numbers through the machine. Can you help her figure out what the numbers will become?</p>  <p>A cartoon number machine with a blue 'IN' cup on the left and a blue 'OUT' cup on the right. The machine's body is a rounded rectangle with various mechanical details. A central panel lists the operations: 'Find a <math>\frac{1}{4}</math>', 'Increase by 57', 'Double it', 'Find 38 less', and 'Add <math>4\frac{1}{2}</math>'.</p> <ol style="list-style-type: none"><li>1. If Ruby puts the number 16 in the machine, what number will come out? <b><math>88\frac{1}{2}</math></b></li><li>2. If Ruby puts the number 200 in the machine, what number will come out? <b><math>180\frac{1}{2}</math></b></li><li>3. If Ruby puts the number 324 in the machine, what number will come out? <b><math>242\frac{1}{2}</math></b></li></ol>	<p>Ruby has a special number machine. She puts some numbers through the machine. Can you help her figure out what the numbers will become?</p>  <p>A cartoon number machine with a pink 'IN' cup on the left and a pink 'OUT' cup on the right. The machine's body is a rounded rectangle with various mechanical details. A central panel lists the operations: 'Find a 20%', 'Find <math>\frac{3}{4}</math>', 'Increase by 655', 'Decrease by 288', 'Multiply by 6', and 'Divide by 10'.</p> <ol style="list-style-type: none"><li>1. If Ruby puts the number 40 in the machine, what number will come out? <b>223.8</b></li><li>2. If Ruby puts the number 120 in the machine, what number will come out? <b>231</b></li><li>3. If Ruby puts the number 1,820 in the machine, what number will come out? <b>384</b></li></ol>