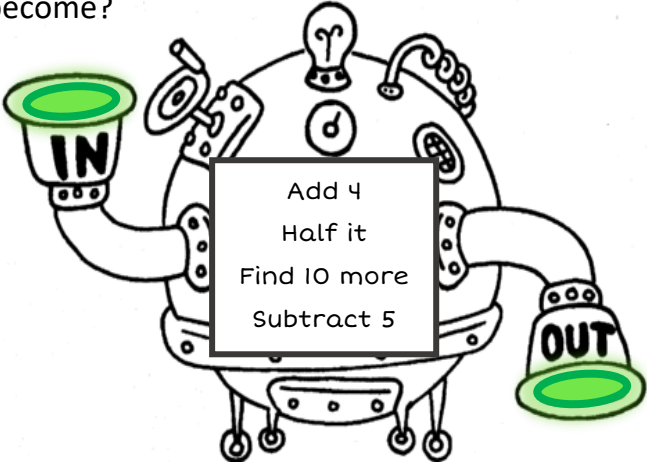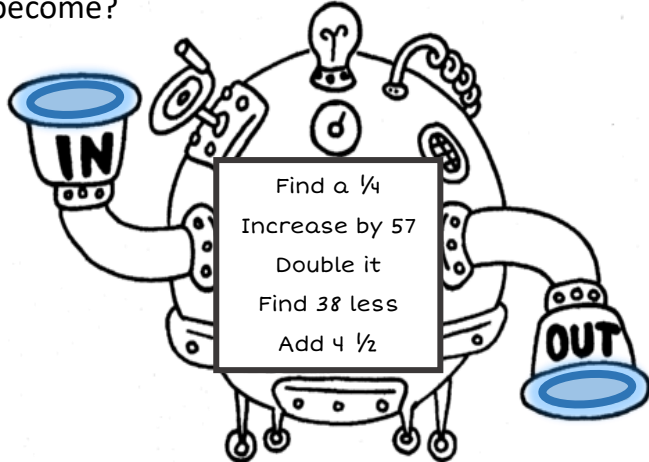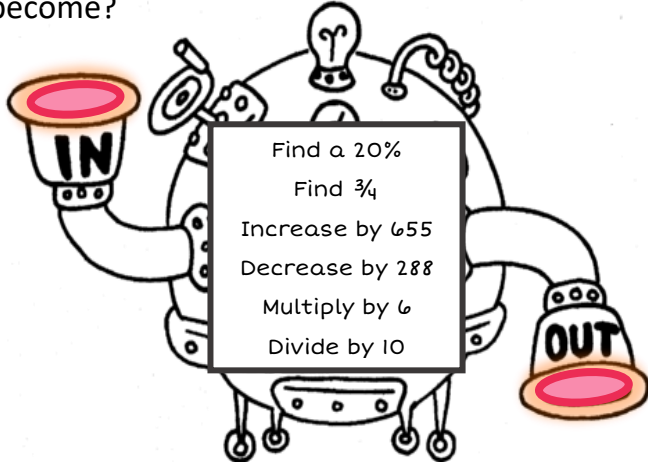**Maths Focus:** Mental and written calculation of all four operations; finding fractions; solving percentages

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
Ruby has a special number machine. She puts some numbers through the machine. Can you help her figure out what the numbers will become?	Ruby has a special number machine. She puts some numbers through the machine. Can you help her figure out what the numbers will become?	Ruby has a special number machine. She puts some numbers through the machine. Can you help her figure out what the numbers will become?

Level 1 machine:

Add 4
Half it
Find 10 more
Subtract 5

1. If Ruby puts the number 6 in the machine, what number will come out?
2. If Ruby puts the number 22 in the machine, what number will come out?
3. If Ruby puts the number 38 in the machine, what number will come out?

Level 2 machine:

Find a ¼
Increase by 57
Double it
Find 38 less
Add 4 ½

1. If Ruby puts the number 16 in the machine, what number will come out?
2. If Ruby puts the number 200 in the machine, what number will come out?
3. If Ruby puts the number 324 in the machine, what number will come out?

Level 3 machine:

Find a 20%
Find ¾
Increase by 655
Decrease by 288
Multiply by 6
Divide by 10

1. If Ruby puts the number 40 in the machine, what number will come out?
2. If Ruby puts the number 120 in the machine, what number will come out?
3. If Ruby puts the number 1,820 in the machine, what number will come out?