

Mathematics

Pick a number...
Downloadable Resource

Mr Langton



Pick a Number...

Here are three different puzzles.

Pick A Number:	
Square it	
Multiply by 3	
Increase by 18	
Divide by 3	
Double it	
Double it again!	
Subtract 20	
Divide by 4	

Pick A Number:	
Add 12	
Multiply by 4	
Subtract 36	
Add 9	
Multiply by 2	
Add 14	
Divide by 4	
Subtract 14	

Pick A Number:	
Multiply by 10	
Add 30	
Subtract 5	
Double it	
Divide by 5	
Add 17	
Subtract 25	
Divide by 2	

Investigate each of these puzzles, and see if you can find any patterns or rules.

Can you find a link between the start number and the finish number?

Can you tell me which starting numbers will always give odd answers? Or which will always give even answers?

