



A Note for Parents & Guardians

Welcome to the Number Path Puzzle! This activity is a fun, calm way for your child to explore the connections between numbers.

It's a puzzle, not a test, and it's designed to celebrate logical thinking and pattern spotting.

The goal is to find a path through the maze of numbers, following a simple rule. This helps build an intuitive understanding of number sequences and scale. Encourage your child to take their time and enjoy the process of solving the puzzle.



The Number Path Puzzle

Can you find the hidden paths? Your mission is to draw a line from the START number to the FINISH number for each puzzle. You can move to any square that is touching your current square, even on the corners (up, down, left, right, and diagonally).

Puzzle 1: Ascending Order

Start at the smallest number and connect the numbers in increasing order until you reach the largest number.

10 (START HERE)	25	200	1,000 (FINISH HERE)
50	250	150	900
75	120	300	850
90	400	500	600

Puzzle 2: The Path of Ten

The Rule: Start at 10. The number in the next square on the path must be 10 times bigger than your current square. This grid is filled with extra numbers to try and trick you. Not all of the numbers are part of the sequence.

10 (START HERE)	100	500	2,000	80,000
20	1,000	10,000	7,000	90,000
4,000	600	100,000	5,000,000	6,000,000
8,000	30,000	1,000,000	10,000,000	7,000,000
12,000	500,000	400,000	800,000	100,000,000 (FINISH HERE)



The Number Path Puzzle

Puzzle 3: The Path of Doubles (Hard)

The number in the next square on the path must be double (2 times bigger than) your current square. Be careful! This grid is filled with extra numbers to try and trick you. Not all of the numbers are part of the sequence.

2 (START HERE)	4	10	20	40	80
3	8	16	30	60	100
5	12	32	64	120	200
10	20	60	128	250	500
15	25	100	256	512	1,000
30	50	200	4,096	1,024	2,000
60	100	8,192	2,048	1,000	4,000
120	200	800	16,384	2,025	8,000
240	131,072	32,768	4,000	4,564	16,000
262,144	800	65,536	2,097,152	1,116	32,000
960,000	524,288	1,048,576	16,000	4,194,304	8,388,608
32,123,320	3,200,000	12,800,000	32,000	16,777,216	130,000,000
27,664,457	6,400,000	32,897,886	64,000,000	131,072	33,554,432 (FINISH HERE)



The Number Path Puzzle

1. Make up your own rule. (For example: "The path gets bigger by adding 5 each time.")
2. Fill in the grid with your numbers. Remember to put the correct numbers along the path and add other numbers to make it tricky!
3. Mark your START and FINISH squares.

My Puzzle Rule is:

[illegible]



BIG NUMBER
ACADEMY

Number Puzzle Expert

Well done, Puzzle Master! You have an amazing mind for numbers and patterns.

Puzzler's Name:

My top 5 best big numbers are:

Signature:

Date: