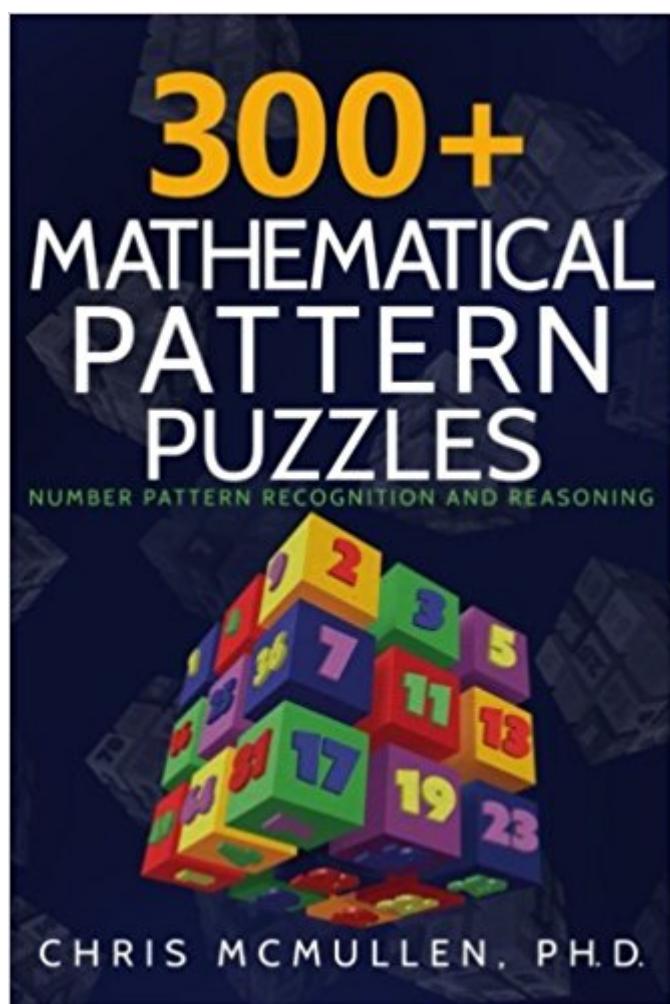


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# 300+ Mathematical Pattern Puzzles: Number Pattern Recognition & Reasoning (Improve Your Math Fluency)



## Synopsis

Enjoy a variety of mathematical pattern puzzles. It starts out easy with basic patterns and simple puzzles, and the challenge level grows progressively. This way, puzzlers of all ages and abilities can enjoy many of the patterns and puzzles in this book. Patterns include: Arithmetic, Prime numbers, Fibonacci sequence, Visual puzzles, Roman numerals, Arrays and more. Challenge yourself and develop useful skills: pattern recognition, visual discrimination, analytical skills, logic and reasoning, analogies, mathematics. Answers and explanations for all puzzles can be found at the back of the book. Each chapter begins with a brief introduction or review of the relevant concepts, followed by 2-3 examples of pattern puzzles with explanations.

## Book Information

Series: Improve Your Math Fluency

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## Customer Reviews

SAMPLE PUZZLES  
Easy: 9, 16, \_\_, 30, \_\_, 44, 51  
Medium: 3, 4, 7, 11, 18, 29, 47, \_\_, \_\_  
Challenge: 5, 50, 10, 40, 15, 30, 20, 20, 25, \_\_, \_\_  
ANSWERS & EXPLANATIONS  
Easy: 23, 37. Add 7 to each number:  $9 + 7 = 16$ ,  $16 + 7 = 23$ ,  $23 + 7 = 30$ ,  $30 + 7 = 37$ ,  $37 + 7 = 44$ , etc.  
Medium: 76, 123. Like the Fibonacci sequence, add the two previous numbers together:  $3 + 4 = 7$ ,  $4 + 7 = 11$ ,  $7 + 11 = 18$ ,  $11 + 18 = 29$ ,  $18 + 29 = 47$ ,  $29 + 47 = 76$ ,  $47 + 76 = 123$ .  
Challenge: 10, 30. Two different sequences are merged together. One sequence adds 5:  $5 + 5 = 10$ ,  $10 + 5 = 15$ ,  $15 + 5 = 20$ ,  $20 + 5 = 25$ ,  $25 + 5 = 30$ . The other sequence subtracts 10:  $50 - 10 = 40$ ,  $40 - 10 = 30$ ,  $30 - 10 = 20$ ,  $20 - 10 = 10$ . Merge the sequence 5, 10, 15, 20, 25, 30 with the sequence 50, 40, 30, 20, 10 to get 5, 50, 10, 40,

15, 30, 20, 20, 25, 10, 30.

Chris McMullen is a physics instructor at Northwestern State University of Louisiana. He earned his Ph.D. in phenomenological high-energy physics (particle physics) from Oklahoma State University in 2002. Originally from California, he earned his Master's degree from California State University, Northridge, where his thesis was in the field of electron spin resonance. As a physics teacher, Dr. McMullen observed that many students lack fluency in fundamental math skills. In an effort to help students of all ages and levels master basic math skills, he has published this Improve Your Math Fluency Series of math workbooks on arithmetic, fractions, algebra, and trigonometry.

I'm a big fan of Chris McMullen's workbooks, generally just for the extra practice problems. This one, though, is really well done. It isn't advanced, but is a nifty little book to give kids an idea of how to look for the pattern (instead of the answer.) Most of the patterns are pretty clear, but there are enough slightly tricky ones to throw a kid off their game if they're just trying to find an answer or taking the "This is easy, I don't have to work at it" approach. The schools do very little (if any) pattern work with the kids and it's on the dang SAT, so they need to learn it and they must begin somewhere. This is an EXCELLENT place to begin. Now if he'd just write a tougher one. I cannot seem to find a good book for the next step up.

It's a fun puzzle book for a long flight, well hold two wild boys attention.

My daughter is still using this even though we bought it months ago. I expected her to use it a couple of times and leave it in her room. She still uses it for a boredom buster.

Tougher than I expected

Great!!!

Very pleased

Item exactly as described.

My daughter is obsessed with giving herself "extra homework". This book has been a life saver

keeping her busy!

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