

Patterns: Worksheet for Grade 4 : Difficulty Level : Advanced								
Name:								
Date:	Date:							
Section	on A: Advanced Number Patterns							
1.	Find the next two numbers in the sequence: a) 2, 6, 12, 20, 30,,							
	b) 5, 11, 18, 26, 35,, c) 300, 275, 250, 225, 200,,							
2.	d) 2, 5, 10, 17, 26,, Fill in the blanks in the following sequences:							
	a) 9, 17, 26, 36,, b) 1000, 950, 900, 850,, c) 3, 8, 15, 24,, d) 5, 25, 125, 625,,							
Section	on B: Shape Patterns with Complex Rules							
3.	Draw the next two shapes in the pattern: a) , , , , , , , , , , , , , , , , , , ,							
4.	Identify and complete the missing shapes: a) , , , , , , , , , , , , , , , , , , ,							
Section	on C: Word and Letter Patterns							
5.	Complete the word sequence: a) DOG, DOGS, DOGED, DOGING,,							
6.	b) CLAP, CLIP, CLAP, CLIP,, Identify the rule and continue the letter pattern: a) A1, B3, C6, D10,, b) Z5, Y10, X15, W20,,							



Section	D·	Multi-Ste	p Challenge	Problems
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7.	Solve	the	following	complex	patterns:
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a) 3, 6, 11, 18, 27, ____, ___ b) 7, 12, 17, 22, 27, ____, ___

8. Create your own advanced pattern (number, shape, or word) and explain how it works:

Pattern: ______Explanation: _____

Answer Key (for teachers):

• **Section A:** 1) a) 42, 56 b) 43, 52 c) 175, 150 d) 37, 50

• Section B: 3) a) , b) ,

• Section C: 5) a) DOGGED, DOGGING b) CLAP, CLIP

• Section D: Answers for created patterns will vary.

— BE CHAMPION—