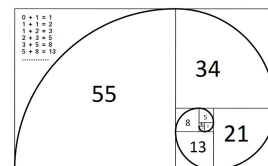# NUMBER PATTERNS & RECURSION

For each concept you need to tick **one** box in the EXERCISES column and **all three** boxes in the BOUND REFERENCE column.

CONCEPT	EXERCISES	BOUND REFERENCE
Identifying Number Patterns	**Exercise 8 A** **Entry:** 1a→i, 2 , 3 & 5　▢ **Expected:** 1a→o, 2, 4 & 5　▢ **Expected+:** 1a→o, 2, 4, 5 & 6　▢	Concept　▢ How to　▢ Example(s)　▢
Identifying Arithmetic Sequences	**Exercise 8B** **Entry:** 1, 2, 4a→c, 5d→f 7, 8a, 9 & 12　▢ **Expected:**1, 3, 4a→c, 6c→f, 7, 8a, 9,10 & 12　▢ **Expected+:** 1, 3, 4a→c, 6c→f, 7, 8a, 9,11 & 12　▢	Concept　▢ How to　▢ Example(s)　▢
Finding and Applying the Arithmetic Sequence	**Exercise 8C** **Entry:** 1 abc, 2ace, 3, 5 & 6　▢ **Expected:** 1 abc, 2ace, 3, 6 & 8　▢ **Expected+:** 1 abc, 2ace, 3, 6 & 9　▢	Concept　▢ How to　▢ Example(s)　▢
Using a Recurring Relation to Generate & Analyse an Arithmetic Sequence	**Exercise 8D** **Entry:** 1, 2 & 4　▢ **Expected:** 1, 2 & 5　▢ **Expected+:** 1, 2 & 5　▢	Concept　▢ How to　▢ Example(s)　▢
Showing and Generating the Geometric Sequences	**Exercise 8E** **Entry:** 1a→d, 2a→d, 3abc, 4ab & 5a　▢ **Expected:** 1a→d, 2a→d, 3def, 4def & 5a　▢ **Expected+:** 1a→d, 2a→d, 3def, 4def & 5　▢	Concept　▢ How to　▢ Example(s)　▢
Applying the Geometric Sequences	**Exercise 8F** **Entry:** 1adg, 2ad, 3ace, 4ac, 8ab, 10 & 12ac　▢ **Expected:** 1adg, 2ad, 3ace, 4ac, 8ab,11, 12ad & 14　▢ **Expected+:** 1adg, 2ad, 3ace, 4ac, 8ab, 11, 13 & 14　▢	Concept　▢ How to　▢ Example(s)　▢
Using the recurrence Relation to generate & Analyse a Geometric Sequence	**Exercise 8G** **Entry:** 1, 2 & 3　▢ **Expected:** 1, 3 & 4　▢ **Expected+:** 1, 2, 3 & 4　▢	Concept　▢ How to　▢ Example(s)　▢

Using Recurrence Relations to Model Growth and Decay	**Exercise 8H** **Entry:** 1, 3, 5a, 6, 8 & 10 **Expected:** 1,2, 3, 5ab, 6, 8, 9 & 10 **Expected+:** 1,2, 3, 5ab, 6, 8, 9 & 10	□ □ □	Concept How to Example(s)	□ □ □
The Fibonacci Sequence	**Exercise 8I** **Entry:** 1, 2ab, 3ab & 5 **Expected:** 1, 2ab, 3ab, 4 & 5 **Expected+:** 1, 2ab, 3ab, 4 & 6	□ □ □	Concept How to Example(s)	□ □ □