

Grade 1

Patterns & Sequences



Discover patterns, find the rule and become a Pattern Detective!

Name: _____ Date: _____

Page 2 — Shape Patterns

Look carefully. Draw the next shape in each pattern.



1. Next shape: _____



2. Next shape: _____



3. Next shape: _____



4. Next shape: _____

Page 3 — Picture & Colour Patterns

Complete each pattern. Draw or colour the missing part.

1.

?

2.

?

3.

?

?

4.

?

Create your own repeating pattern using 3 different shapes:

Page 4 — Number Patterns

Find the missing numbers.

1. 2, 4, 6, 8, ____, ____,	2. 5, 10, 15, 20, ____, ____,
3. 10, 20, 30, ____, ____, 60	4. 1, 3, 5, 7, ____, ____,
5. 20, 19, 18, ____, ____, 15	6. 30, 25, 20, ____, ____, 5
7. 10, 12, 14, ____, 18, ____,	8. 50, 40, ____, 20, ____, 0

Write the next two numbers: 7, 9, 11, 13, ____, ____,

Page 5 — Skip-Counting Patterns

Complete the patterns by counting in 2s, 5s or 10s.

A. Count in 2s: 2, 4, 6, ____, ____, ____, 14

B. Count in 5s: 5, 10, ____, ____, 25, ____

C. Count in 10s: 10, 20, ____, 40, ____, 60

D. Count in 2s backwards: 20, 18, ____, ____, 12, ____

E. Count in 5s backwards: 30, 25, ____, 15, ____, 5

Circle the pattern that counts in 5s:

2, 4, 6, 8, 10 • 5, 10, 15, 20, 25 • 10, 20, 30, 40

Page 6 — Find the Rule

Look at the numbers. Work out what is happening each time.

Pattern	Rule
3, 5, 7, 9, 11	Add _____
10, 15, 20, 25, 30	Add _____
20, 18, 16, 14, 12	Subtract _____
50, 40, 30, 20, 10	Subtract _____

Now use the rule:

1. Start at 6 and add 2: 6, ____, ____, ____
2. Start at 25 and subtract 5: 25, ____, ____, ____

Page 7 — Growing & Shrinking Patterns

Look at each pattern and decide whether it is growing or shrinking.

1. 2, 4, 6, 8, 10 → _____

2. 20, 18, 16, 14, 12 → _____

3. 5, 10, 15, 20, 25 → _____

4. 30, 25, 20, 15, 10 → _____

Complete the growing pattern:



Complete the shrinking pattern:



Page 8 — What Comes Next?

Choose what comes next. Write the answer.

1. 4, 8, 12, 16, ____ A) 18 B) 20 C) 24
2. 25, 20, 15, 10, ____ A) 5 B) 8 C) 0
3. ■ ■ ■ ■ ■ ____ A) ■ B) ■ C) ■
4. 10, 20, 30, 40, ____ A) 45 B) 50 C) 60
5. 9, 8, 7, 6, ____ A) 4 B) 5 C) 3

Challenge: Can you make a pattern that another child has to solve?

Page 9 — Pattern Detective

Each pattern has a mistake. Find it and write the correct number or shape.

1. 2, 4, 6, 9, 10 → Wrong number: _____ Correct number: _____
2. 5, 10, 15, 25, 25 → Wrong number: _____ Correct number: _____
3. ■ ■ ■ ■ ■ ■ → Which shape is wrong? _____ Correct shape: _____
4. 20, 18, 16, 15, 12 → Wrong number: _____ Correct number: _____

Explain the rule for one corrected pattern:

Page 10 — Super Pattern Challenge

1. Fill the missing numbers: 3, 6, 9, ____, 15, ____
2. Fill the missing numbers: 40, 35, ____, 25, ____, 15
3. What is the rule? 7, 10, 13, 16, 19 → _____
4. What comes next? 100, 90, 80, 70, ____

5. Complete the shape pattern:



6. Sam has 10 stickers. He adds 2 more each day. How many stickers will he have after 3 days? _____
7. A pattern starts at 30 and goes down by 5. Write the next four numbers: _____
8. Create your own number pattern with at least 6 numbers. Write the rule too.

Page 11 — Teacher Answer Key

Page 2 — Shape Patterns

1) Circle 2) Square 3) Square 4) Star.

Page 3 — Picture & Colour Patterns

1) Banana 2) Heart 3) Blue square, Green square 4) Dog. Own pattern: answers vary.

Page 4 — Number Patterns

1) 10, 12 2) 25, 30 3) 40, 50 4) 9, 11 5) 17, 16 6) 15, 10 7) 16, 20 8) 30, 10. Final: 15, 17.

Page 5 — Skip-Counting

A) 8, 10, 12 B) 15, 20, 30 C) 30, 50 D) 16, 14, 10 E) 20, 10. Circle the 5s pattern.

Page 6 — Find the Rule

Rules: +2, +5, -2, -10. 1) 8, 10, 12 2) 20, 15, 10.

Page 7 — Growing & Shrinking

1) Growing 2) Shrinking 3) Growing 4) Shrinking. Growing pattern: five circles. Shrinking pattern: two stars, one star.

Page 8 — What Comes Next?

1) B—20 2) A—5 3) B—circle 4) B—50 5) B—5.

Page 9 — Pattern Detective

1) $9 \rightarrow 8$ 2) 25 (the fourth term) $\rightarrow 20$ 3) Triangle $\rightarrow$ Circle 4) $15 \rightarrow 14$. Rule depends on corrected pattern.

Page 10 — Super Challenge

1) 12, 18 2) 30, 20 3) +3 4) 60 5) Triangle 6) 16 stickers 7) 25, 20, 15, 10. Q8: answers vary; rule should match the pattern.