

Subject: Maths

Class: 3

Topic: Patterns in Shapes

Levels: Basic, Intermediate, Advanced

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Level: Basic

1. Complete the pattern: ● ▲ ● ▲ \_\_\_\_\_
2. What comes next? ★ ☆ ★ ☆ \_\_\_\_\_
3. Follow the sequence: ■ ● ● ■ ● ● \_\_\_\_\_
4. Draw the missing shape: ✨ ✨ ▲ ✨ ✨ \_\_\_\_\_
5. Identify the rule: ▲ ▲ ● ▲ ▲ ● (Rule: \_\_\_\_\_)
6. Draw the next shape: ♥ ★ ♥ ★ \_\_\_\_\_
7. Aarav makes a rangoli with: ☆ ● ☆ ●. What is the next shape? \_\_\_\_\_
8. Finish the border: ▲ ■ ▲ ■ \_\_\_\_\_
9. Pattern check: ● ★ ● ★ ●. Is the next shape ★ or ●? \_\_\_\_\_
10. Create a pattern using one ▲ and two ●: \_\_\_\_\_

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Level: Intermediate

1. Growing Pattern: ▲ ▲▲ ▲▲▲ \_\_\_\_\_ (How many triangles?)
2. Diya saw this on a saree: ❁ ● ● ❁ ● ● \_\_\_\_\_
3. Complete the set: (● ▲) (● ▲▲) (● ▲▲▲) (\_\_\_\_\_)
4. What comes next? ✨ ▲ ▲ ✨ ▲ ▲ \_\_\_\_\_
5. Look at the symbols: ★ ● ▲ ★ ● ▲ \_\_\_\_\_
6. Sita uses laddoos for a pattern: ● ● ● ❁ ● ● ● ❁ \_\_\_\_\_
7. Identify the next shape in this turn: ↑ → ↓ (Answer: \_\_\_\_\_)
8. Number and Shape: 1▲ 2● 1▲ 2● \_\_\_\_\_
9. Complete the tile pattern: ■ ▲▲ ■ ▲▲ \_\_\_\_\_
10. If 'A' is ● and 'B' is ★, draw the pattern 'AAB AAB': \_\_\_\_\_

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Level: Advanced

1. Challenge: (▲ ● ★) (● ★ ▲) (★ ▲ ●) (\_\_\_\_\_)
2. If  $1 = *$  and  $2 = \blacktriangle$ , draw the pattern for 1-2-1-1-2-1-1-1-2: \_\_\_\_\_
3. Mirror Pattern: ▲ ● | ● ▲ | ■ ★ | \_\_\_\_\_
4. A pattern has 2 squares and 1 circle. If there are 9 shapes, how many are circles? \_\_\_\_\_
5. Create a pattern that uses 2 different shapes and grows by 1 each time: \_\_\_\_\_
6. Find the odd one out: (● ★ ●) (▲ ✱ ▲) (♥ ▲ ▲) (✿ ■ ✿)
7. Symmetry: If you fold ✿ in half, do both sides match? \_\_\_\_\_
8. If  $\blacktriangle + \blacktriangle = \blacksquare$ , then  $\blacktriangle + \blacktriangle + \blacktriangle + \blacktriangle =$  \_\_\_\_\_ (Draw the shapes)
9. What is the 10th shape in this pattern? ● ★ ● ★ ... \_\_\_\_\_
10. Draw a pattern using ✱ and ▲ that shows a 'Day and Night' sequence: \_\_\_\_\_