

Subject: Mathematics

Class: 3

Topic: Shape Patterns

Levels: Basic, Intermediate, Advanced

Level: Basic

1. Complete the pattern: ▲ ● ▲ ● ▲ ____
2. What comes next? ★ ★ ☆ ★ ★ ____
3. Find the missing shape: ✨ 🌱 ✨ 🌱 ____ 🌱
4. Aarav draws: ● ● ▲ ● ● ▲. What is the next shape? ____
5. Identify the pattern: ♥ ☆ ♥ ☆ ♥ ____
6. Continue the sequence: ■ ■ ● ■ ■ ____
7. What shape follows? ▲ ▲ ▲ ● ▲ ▲ ▲ ____
8. Sita made a rangoli with: ★ ✨ ★ ✨. The next shape is ____
9. Fill in: ● ☆ ● ☆ ____ ☆
10. Pattern: ▲ ■ ▲ ■ ▲ ____

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Level: Intermediate

1. Growing Pattern: ▲ ▲▲ ▲▲▲ _____ (How many triangles?)

2. What follows? ● ★ ☆ ● ★ ☆ _____

3. Identify the rule: ✨ 🌱 🌱 ✨ 🌱 🌱 ✨ _____

4. Rahul counts: ● 1 ● 2 ● 3 ● _____

5. Complete: ▲ ■ ● ▲ ■ ● _____

6. Missing part: ★ ☆ ♥ ★ ____ ♥ ★ ☆ ♥

7. Pattern: 2, 4, 6, 8, ____ (What is the rule?)

8. Growing shape: ● ●● ●●● ●●●● _____

9. Match the sequence: ✨ ✨ 🌱 🌱 ✨ ✨ _____

10. What comes next? ▲ ● ● ▲ ● ● _____

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1. If $\blacktriangle = 3$ and $\blacksquare = 4$, what is the next number in: $\blacktriangle, \blacksquare, \blacktriangle, \blacksquare, \underline{\quad}$?
2. Pattern Rule: One sun, two clouds. $\ast \blacktriangle \blacktriangle \ast \blacktriangle \blacktriangle$. Draw the 10th shape: $\underline{\hspace{2cm}}$
3. Diya sees: $\ast \ast \star \ast \ast \star$. What will be the 12th shape? $\underline{\hspace{2cm}}$
4. Find the mistake: $\bullet \blacktriangle \bullet \blacktriangle \blacksquare \bullet \blacktriangle \bullet$
5. Challenge: 2^2 (4), 3^2 (9), 4^2 (16). What is 5^2 ? $\underline{\hspace{2cm}}$
6. Number and Shape: $1\blacktriangle 2\bullet 3\blacktriangle 4\bullet$ $\underline{\hspace{2cm}}$
7. Rotation Pattern: \ast (Up), \ast (Right), \ast (Down). Next is: $\underline{\hspace{2cm}}$
8. Logic: If a pattern is A-B-C-A-B-C, and $A=\heartsuit$, $B=\star$, $C=\ast$. What is the 7th shape? $\underline{\hspace{2cm}}$
9. Draw the next step: $\bullet, \bullet\bullet, \bullet\bullet\bullet, \underline{\hspace{2cm}}$
10. Create your own pattern using \blacktriangle and \ast in a sequence of 6: $\underline{\hspace{2cm}}$