A. Choose the correct answer:

1. **What comes next in the pattern: 2, 4, 6, 8, ___?**

   a) 10   b) 12

   c) 9   d) 11

2. **Which shape will come next:** ● ▲ ● ▲ ● ___?

   a) ●   b) ▲

   c) ■   d) ◆

3. **The pattern 5, 10, 15, 20, ___ follows**

   a) Addition of 2   b) Addition of 3

   c) Addition of 5   d) Subtraction of 5

4. **Which of these is an increasing number pattern?**

   a) 10, 8, 6, 4   b) 1, 3, 5, 7

   c) 100, 90, 80, 70   d) 50, 40, 30, 20

5. **In the pattern 1, 4, 9, 16, ___, the next number is**

   a) 20   b) 24

   c) 25   d) 36

B. Write the Missing Terms to Complete the Sentences:

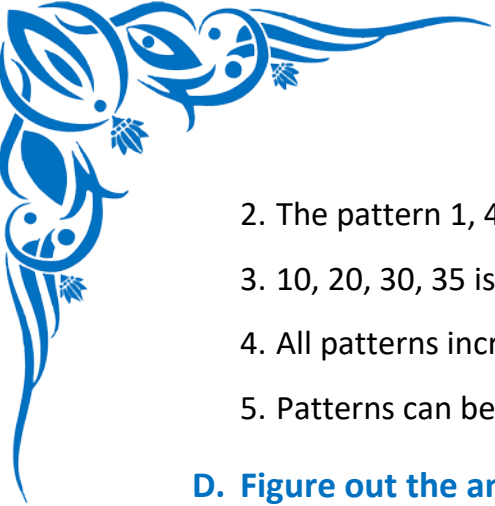1. 7, 14, 21, 28, _____

2. 50, 45, 40, _____, 30

3. ▲ ■ ▲ ■ ▲ _____

4. 100, 200, 300, _____

5. 2, 4, 8, 16, _____

C. Mark each sentence with a True (✔) or False (✗):

1. 2, 4, 6, 8 is a decreasing pattern   _____

2. The pattern 1, 4, 9, 16 follows square numbers   _____

3. 10, 20, 30, 35 is a proper number pattern   _____

4. All patterns increase by the same number   _____

5. Patterns can be made using shapes and numbers   _____

D. Figure out the answers to these questions:

1. Write the next 3 numbers: 3, 6, 9, 12, _____

2. Complete the pattern: ♦, ♦, ♣, ♣, ♦, ♦, ♣, ♣, _____

3. Fill in the blanks: 81, 72, _____, 54, 45

4. Find the rule used in this pattern: 5, 10, 20, 40, _____

5. What comes next: 2 1/2, 3, 3 1/2, 4, _____

E. Challenge yourself with these questions:

1. Create your own pattern using numbers with a difference of 4

2. Complete this pattern: 2, 4, 8, 16, _____, _____

3. What rule is followed in the pattern: 1, 3, 6, 10, 15?

4. Find the missing numbers: 100, ____, 80, ____, 60

5. Complete the shape pattern: ● ▲ ● ■ ● ▲ ● __