

# Identifying Pattern Attributes Lesson



**Problem:** In a pattern the first number is 100. The second number is 90. The third number is 80. The fourth number is 70. Will the 6th number end in 0 or 1?

Explanation: Step 1) Write out what the problem tells us.

*(A) In a pattern the first number is 100. (B) The second number is 90. (C) The third number is 80. (D) The fourth number is 70.* Will the 6th number end in 0 or 1?

- 100 (A)
- 100 (A), 90 (B)
- 100 (A), 90 (B), 80 (C)
- 100 (A), 90 (B), 80 (C), 70 (D)

Step 2) Determine the pattern that is present.

**The current pattern is: 100, 90, 80, 70**

We can see that each value is 10 minus the previous number. It stands to reason that the 5<sup>th</sup> and 6<sup>th</sup> value will follow this pattern.

Step 3) Determine the 5<sup>th</sup> and 6<sup>th</sup> value of the pattern.

If we subtract 10 from each successive value, we will get the pattern:

100, 90, 80, 70, 60, **50**

**To answer the question:** Will the 6th number end in 0 or 1?

The 6<sup>th</sup> value is 50. This number ends in a 0.

