

**Fundamentals of Computer Science**

**More Practice Puzzles**

**Aim to practice on the following logic puzzles in preparation for your Phase Test**

Identify 10 digit series of numbers using the following clues: The first digit indicates how many zeros in the number, the second digit indicates how many 1s in the number and the tenth digit indicates how many 9s in the number.

\_ \_ \_ \_ \_ \_ \_ \_ \_ \_

**\*\*\*\*\*\*\*\*\*\*\***

What follows the series of numbers shown below? Practice developing pattern recognition and abstraction skills here here!

8723, 3872, 2387, \_

1, 4, 9, 18, 35, \_

23, 45, 89, 177, \_

7, 5, 8, 4, 9, 3, \_

3, 8, 15, 24, 35, \_

2, 4, 5, 10, 12, 24, 27, \_

*1, 3, 4, 7, 11, 18,* \_

99, 92, 86, 81, 77, \_

*0, 4, 2, 6, 4, 8, \_*

*1, 2, 6, 24, 120, \_*

*5, 7, 12, 19, 31, 50,* \_

27, 82, 41, 124, 62, 31, 94, 47, 142, 71, 214, 107, \_

126, 63, 190, 95, 286, 143, 430, 215, 646, 323, 970, \_

4, 7, 15, 29, 59, 117, \_

4, 4, 341, 6, 4, 4, 6, 6, 4, 4, 6, 10, 4, 4, 14, 6, 4, 4, 6, 6, 4, 4, 6, 22, 4, 4, 9, 6, \_, \_

**\*\*\*\*\*\*\*\*\*\*\***

When asked about his birthday, a man said:  
  
"The day before yesterday I was only 25 and next year I will turn 28."  
  
This is true only one day in a year - when was he born?

**\*\*\*\*\*\*\*\*\*\*\***

Solve this:   
  
ALFA + BETA + GAMA = DELTA  
  
Replace letters with digits and have the sum be true. There is more than one solution!

**\*\*\*\*\*\*\*\*\*\*\***

Frodo’s teenage years lasted 1/6 of his life. He had the first beard in the next 1/12 of his life. At the end of the following 1/7 of his life Frodo got married. Five years from then his son was born. His son lived exactly 1/2 of Frodo’s life. Frodo died 4 years after the death of his son.  
  
How long did Frodo live?