

Patterns & Sequences

1) Dyslexic Problem:

Given: $\frac{5}{52}$ $\frac{6}{63}$ $\frac{7}{94}$

Find the ?'s $\frac{4}{?}$ $\frac{5}{52}$ $\frac{6}{63}$ $\frac{7}{94}$ $\frac{8}{?}$

2) Given: J7 , F7 , M5 , A5 , M3 , ? Find the ?

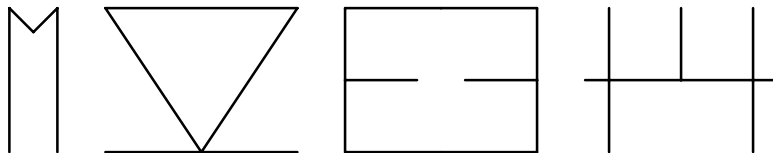
3) Given: 8 , 5 , 4 , 9 , ? Find the ?

Hint: Grade school kids who can spell do better than high school students on this.

4) Given: 1-3 (one dash three), 2-3 , 3-5 , 4-4 , ? Find the ?

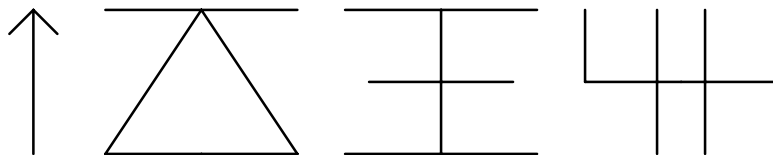
5) Given: O , T , T , F , ? Find the ?

6) What is the next symbol after the four given below?



Hint: If you know the answer to the problem below then you know the one above.

What is the next symbol after the four given below?



7) Upside down pineapple cake problem:

Given: 1 , 8, 11, 69, 88, 96, 101, 111, 181, ? Find the ?

8) Up/down recursive problem:

Given: 19, 28, 37, 46, ? Find the ?

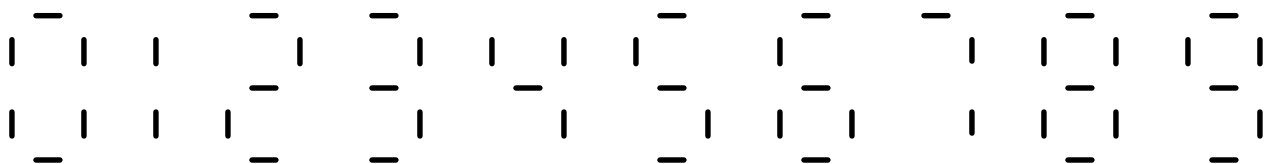
9) Factor recursive problem:

Given: 77, 49, 36, 18, ? Find the ?

10) Almost Pythagoras recursive problem:

Given: 72, 53, 34, 25, ? Find the ?

11) Chris dreamt last night of the digital numbers on his alarm clock:



Upon awakening Chris came up with the sequence as follows:

6, 2, 5, 5, 4, 5, 6, 3, 7, ? Find the ?

12) Given Timmy Tyler's sequence: 2, 3, ? Find the ?

Hint: Timmy Tyler was a truck driver who lived in Taylorsville.

Given: 2, 3, 10, ? Find the ?

Hint: Timmy Tyler had a wife named Tina and a daughter named Tonya.

Given: 2, 3, 10, 12, 20, 21, 22, ... , ? Find the ?

Hint: Some of Timmy Tyler's favorite foods were tacos, turnips, and trout.

13) Given Suzy Swartz's sequence: 6, 7, 16, 17, 60, ? Find the ?

14) Given: 836^2 , 111^2 , 101^2 , 26^2 , 22^2 , $?^2$ Find the ?

Hint: Look at the actual squares of each term:

698896, 12321, 10201, 676, 484, ?

15) Given: 1, 11, 21, 1211, 111221, 312211, 13112221, ? Find the ?