MATHEMATICAL MIND

BRAIN GAMES

Mathematical mind

01. Solve the following problem as quickly as possible – without using a calculator!

$$6 + 18 + 5 + 1 \div 2$$

. . . .

. . . .

02. Lily has a daughter who is 22 years younger than her.
Lily's granddaughter is 27 years younger than Lily's daughter.
The three females have a combined age of 106.
How old are they?

. . . .

. . . .

03. Determine the missing numbers in the sequence.

3, 3, 5, 4, 4, 3, 5, 5, 4,. . . . . ,. . . . . .

04. Test your Sudoku smarts. Fill the grid below so that each column, row and 3×3 block contains all of the numbers from 1 to 9.

		8	5	2				4
	5				4		6	3
3		2	9				7	
				7	9	6	3	1
4								
6	1	9	2	3				
	3				7	4		2
5	9		8				1	
1				6	5	7		

05. Test your Sudoku smarts. Fill the grid below so that each column, row and 3×3 block contains all of the numbers from 1 to 9.

		6		4	8			
		7					6	
		1		9		4		
3		2					5	
				2				
	5					1		3
		3		1		2		
	8					9		
			9	8		3		

Answers

1. 29.5

2. Lily = 59
   Lily's daughter = 37
   Lily's granddaughter = 10

3. 3, 6 - each digit in the sequence is the number of letters in the numbers ONE, TWO, THREE, etc.

4.

7	6	8	5	2	3	1	9	4
9	5	1	7	8	4	2	6	3
3	4	2	9	1	6	8	7	5
2	8	5	4	7	9	6	3	1
4	7	3	6	5	1	9	2	8
6	1	9	2	3	8	5	4	7
8	3	6	1	9	7	4	5	2
5	9	7	8	4	2	3	1	6
1	2	4	3	6	5	7	8	9

5.

9	3	6	5	4	8	7	1	2
8	4	7	2	3	1	5	6	9
5	2	1	7	9	6	4	3	8
3	6	2	1	7	9	8	5	4
4	1	8	3	2	5	6	9	7
7	5	9	8	6	4	1	2	3
6	9	3	4	1	7	2	8	5
2	8	4	6	5	3	9	7	1
1	7	5	9	8	2	3	4	6