Cross Word Puzzle

♠	♠	1						♠	♠
2	3			4				5	6
7		8							
		9						10	
♠	11			12	13				♠
♠	14							15	♠
16			17					18	19
20						21			
22		♠	23				♠		
♠	♠	24						♠	♠

ACROSS

1. French civil engineer and pioneer aerodynmic researcher. A famous tower is named after him (6)
2. German philosopher, writer and mathematician of seventeenth century (1646-1716) (8)
7. A unit of volume measurement (2)
8. Nearly massless electrically neutral lepton (8)
9. A soft, silverwhite, metallic element that oxidises rapidly in moist air (6)
10. Chemical symbol of a silver white metallic element that does not readily corrode or tarnish (2)
11. A solid compound used as a growth regulator to accelerate the ripening of fruits (8)
13. A unit for measuring the apparent loudness of a sound (4)
14. Shortest or longest path between two points (8)
16. The totality of known or supposed objects and phenomena throughout space, the cosmos (8)
18. A unit of measuring energy (2)
20. The complete genetic content of an organism (6)
21. A famous atomic research centre of India (4)
22. A disc for storing audio and video information (2)
23. Nobel prize winner German physicist famous for his study on crystal structure. (4)
24. '_____ number is the number of electrons normally surrounding a nucleus (6)

UP-DOWN

1. German physicist (1979-1955) who won Nobel prize in 1921 (8)
2. A special type of display (3)
3. Electrocardiogram (3)
4. Institute for industrial training (3)
5. An extremely long macromolecule which is the main component of chromosome (3)
6. A fluid colloidal solution (3)
12. A small surface swelling of plant parts caused by excessive moisture (5)
15. European laboratory for particle physics, an international research organisation based in Geneva, Switzerland(4)
16. Grant commision for universities in our country (3)
17. Unit of potential difference (4)
19. An electronic apparatus used for recording purpose (3)

7, Interesting patterns in arithmetic :

$1 \times 9 + 2 = 11$

$12 \times 9 + 3 = 111$

$123 \times 9 + 4 = 1111$

$1234 \times 9 + 3 = 11111$

$9 \times 9 = 81$

$99 \times 999 = 98901$

$999 \times 999 = 998001$

$9999 \times 99999 = 999980001$

$9 \times 9 + 7 = 88$

$98 \times 9 + 6 = 888$

$987 \times 9 + 5 = 8888$

$9876 \times 9 + 4 = 88888$

$6 \times 7 = 42$

$66 \times 67 = 4422$

$666 \times 667 = 444222$

$6666 \times 6667 = 44442222$

8. What day of the week were you born ?

Even though you were there at the moment of your birth, you may not remember exactly what day of the week it was! Here is a little trick to help you figure what day that was. In fact, not only will it help you find that out, you can find out the day of the week for any date you want in the 20th century.

Step 1. Write the last two digits of the year you were born, Call it A.

Step 2. Divide the number, that is divide A by four. Drop the remainder if there is one. Call this answer, without the remainder, B.

Step 3. Find the month number corresponding to the month you were born in from the table below. Call it C.

Step 4. Oh, the date you were born on , call it D. (if you were born on the 12 th, call D = 12.)

Step 5. Now add A+B+C+D. Divide this sum by 7. The remainder you get is the key to the day of the week.

Step 6.   In the table of days below, match the remainder with the day of the week you were born on.

TABLE OF MONTHS		TABLE OF DAYS
		Sunday = 1
January = 1	July = 0	Monday = 2
(0 in leap yr.)	August = 3	
February = 4		Tuesday = 3
(3 in leap yr.)		
March = 4	Sept. = 6	Wednesday = 4
April = 0	Oct. = 1	Thursday = 5
May = 2	Nov. = 4	Friday = 6
June = 5	Dec. = 6	Saturday = 0

Solution of Cross Word Puzzle