

# ABSALOM'S EQUATION



**ABSALOM MARKUS PLK**

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## **DEDICATION**

I dedicated this project to the God of ABRAHAM, the God of ISAAC, the God of JACOB, the God of ISREAL, the God of my father MARKUS and the God of my mother ZIPORAH and also my God ABSALOM.

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Hello World. Peace be with you  
I am ABSALOM MARKUS, From  
NIGERIA, KADUNA STATE, KUBAU Local  
Government, PALLANKIN AMAWA.

But, Do you know That, these numbers  
and These Alphabets are equal???

(a)  $1 = 1$ .

(b)  $2 = 3 = 5 = b = d = E$ .

(c)  $4 = 7 = C = f$ .

(d)  $0 = 6 = 9 = A$ .

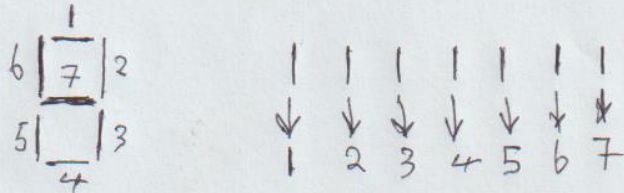
(e)  $8 = 8$ .

any number is equal to itself.  
any alphabet is equal to itself.  
But, numbers and alphabets are  
equal, if they have equal numbers  
of segments by changing the  
position of one or some segments  
of the numbers and the alphabets.  
Said by "ABSALOM MARKUS"



## WHAT IS SEVEN SEGMENTS

Seven Segment is an arrangement of seven bars or segments forming a square figure of eight.



Count as bar 1. to bar 7 or Segment 1, to Segment 7.

## SEVEN SEGMENT DISPLAY DEVICES

- (1) Calculators.
- (2) Digital clocks.
- (3) Speedometers.
- (4) Wristwatches.
- (5) Motor-vehicle odometers.
- (6) Clock radios etc.

$\begin{array}{c} 1 \\ 1 \\ 1 \\ 2 \end{array} = \begin{array}{c} 1 \\ 1 \\ 1 \\ 2 \end{array} = \begin{array}{c} 1 \\ 1 \\ \downarrow \downarrow \\ 1 \quad 2 \end{array}$  One has two segments

Read as Segment 1 Segment 2

$\begin{array}{c} 1 \\ 6 \\ \boxed{7} \\ 5 \\ \boxed{\phantom{0}} \\ 4 \end{array} \begin{array}{c} | \\ | \\ | \\ | \\ | \\ | \end{array} \begin{array}{c} 2 \\ 3 \\ 4 \end{array} = \begin{array}{c} 1 \\ \downarrow \\ 1 \end{array} \begin{array}{c} 1 \\ \downarrow \\ 2 \end{array} \begin{array}{c} 1 \\ \downarrow \\ 3 \end{array} \begin{array}{c} 1 \\ \downarrow \\ 4 \end{array} \begin{array}{c} 1 \\ \downarrow \\ 5 \end{array} \begin{array}{c} 1 \\ \downarrow \\ 6 \end{array} \begin{array}{c} 1 \\ \downarrow \\ 7 \end{array}$  8 has 7 segments

Count as Segment 1, Segment 2, to Segment 7

0 1 2 3 4 5 6 7 8 9

A B C D E F

Hexadecimal:

I used in this equation, but you can use any other equal segmented numbers and alphabets.



# Counting from 1 to 100

0	1	2	3	4	5	6	7	8	9	10
6	1	3	5	7	2	9	4	8	0	16
11	13	15	<del>17</del>	12	19	14	18	10	36	
31	33	35	37	32	39	34	38	30	56	
51	53	55	57	52	59	54	58	<del>50</del>	76	
71	73	75	77	72	79	74	78	70	26	
21	23	25	27	22	29	24	28	20	96	
91	93	95	97	92	99	94	98	90	46	
41	43	45	47	42	49	44	48	40	86	
81	83	85	87	82	89	84	88	80	06	
01	03	05	07	02	09	04	08	00	166	

$$\begin{array}{r} 1 \\ 2 \overline{) 12} \\ \underline{14} \\ 5 \end{array} \quad = \quad \begin{array}{c} 1 \ 1 \ 1 \ 1 \ 1 \\ \downarrow \downarrow \downarrow \downarrow \downarrow \\ 1 \ 2 \ 3 \ 4 \ 5 \end{array} \quad = \quad \begin{array}{l} 5 = 5 \\ 12345 = 12345 \end{array}$$

$$\begin{array}{r} 1 \\ 5 \overline{) 12} \\ \underline{13} \\ 4 \end{array} \quad = \quad \begin{array}{c} 1 \ 1 \ 1 \ 1 \ 1 \\ \downarrow \downarrow \downarrow \downarrow \downarrow \\ 1 \ 2 \ 3 \ 4 \ 5 \end{array} \quad = \quad \begin{array}{l} 5 = 5 \\ 12345 = 12345 \end{array}$$

$$\begin{array}{r} 1 \\ 2 \overline{) 13} \\ \underline{14} \\ 5 \end{array} \quad = \quad \begin{array}{c} 1 \ 1 \ 1 \ 1 \ 1 \\ \downarrow \downarrow \downarrow \downarrow \downarrow \\ 1 \ 2 \ 3 \ 4 \ 5 \end{array} \quad = \quad \begin{array}{l} 5 = 5 \\ 12345 = 12345 \end{array}$$

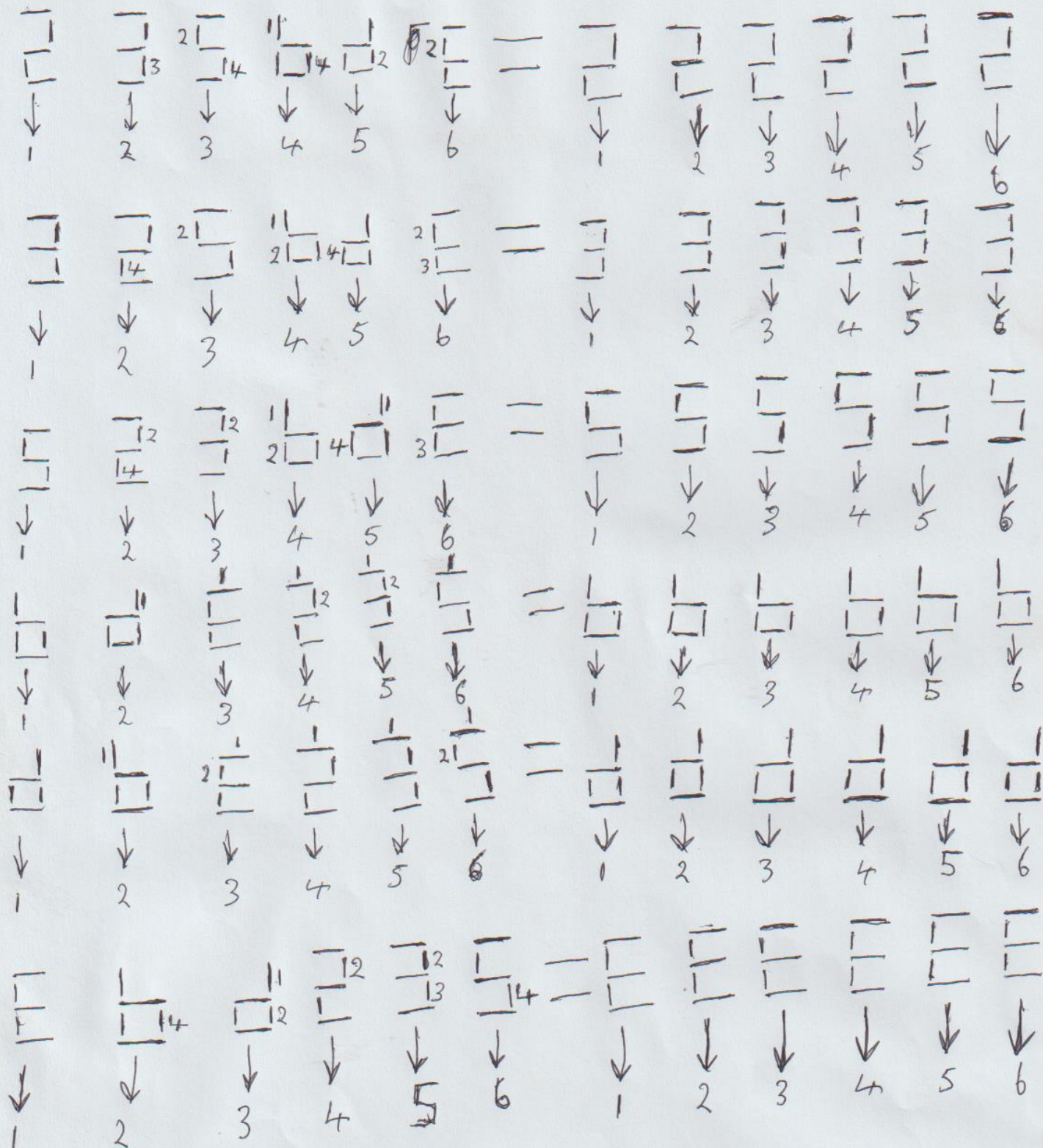
$$\begin{array}{r} 1 \ 1 \\ 2 \overline{) 15} \\ \underline{14} \\ 3 \end{array} \quad = \quad \begin{array}{c} 1 \ 1 \ 1 \ 1 \ 1 \\ \downarrow \downarrow \downarrow \downarrow \downarrow \\ 1 \ 2 \ 3 \ 4 \ 5 \end{array} \quad = \quad \begin{array}{l} 5 = 5 \\ 12345 = 12345 \end{array}$$

$$\begin{array}{r} 5 \ 1 \\ 4 \overline{) 15} \\ \underline{12} \\ 3 \end{array} \quad = \quad \begin{array}{c} 1 \ 1 \ 1 \ 1 \ 1 \\ \downarrow \downarrow \downarrow \downarrow \downarrow \\ 1 \ 2 \ 3 \ 4 \ 5 \end{array} \quad = \quad \begin{array}{l} 5 = 5 \\ 12345 = 12345 \end{array}$$

$$\begin{array}{r} 1 \\ 2 \overline{) 15} \\ 3 \overline{) 14} \\ \underline{4} \end{array} \quad = \quad \begin{array}{c} 1 \ 1 \ 1 \ 1 \ 1 \\ \downarrow \downarrow \downarrow \downarrow \downarrow \\ 1 \ 2 \ 3 \ 4 \ 5 \end{array} \quad = \quad \begin{array}{l} 5 = 5 \\ 12345 = 12345 \end{array}$$

Count as Segment 1, Segment 2,  
Segment 3, Segment 4, Segment 5.  
They have Five-Five Segments.  
That is  $5 = 5$  or  $12345 = 12345$ .





$$\begin{array}{c} 11 \\ \hline 2 \end{array} \begin{array}{c} 14 \\ 13 \end{array} = \begin{array}{c} 1111 \\ \downarrow \downarrow \downarrow \downarrow \\ 1234 \end{array} = \begin{array}{c} 4 = 4 \\ 1234 = 1234 \end{array}$$

$$\begin{array}{c} 11 \\ \hline 2 \end{array} \begin{array}{c} 13 \\ 14 \end{array} = \begin{array}{c} 1111 \\ \downarrow \downarrow \downarrow \downarrow \\ 1234 \end{array} = \begin{array}{c} 4 = 4 \\ 1234 = 1234 \end{array}$$

$$\begin{array}{c} 1 \\ 21 \\ \hline 31 \\ \hline 4 \end{array} = \begin{array}{c} 1111 \\ \downarrow \downarrow \downarrow \downarrow \\ 1234 \end{array} = \begin{array}{c} 4 = 4 \\ 1234 = 1234 \end{array}$$

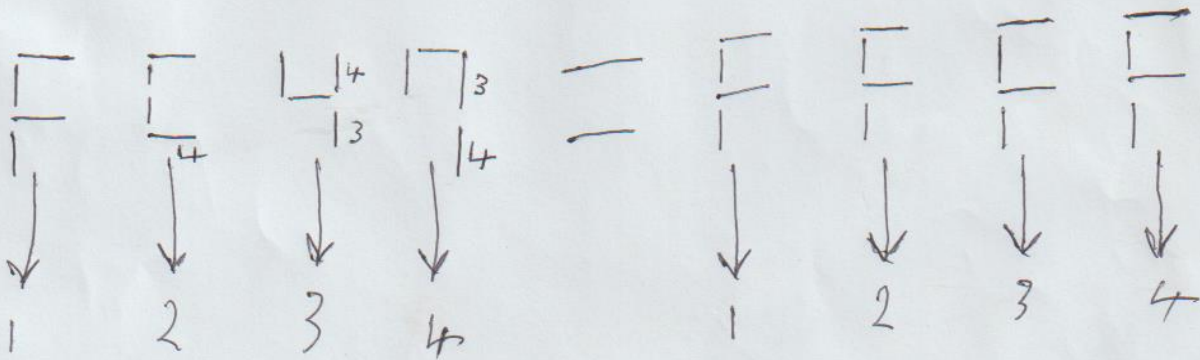
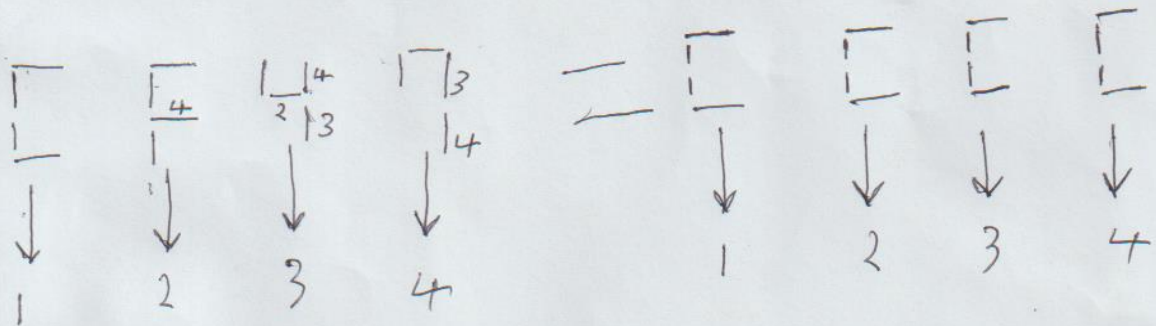
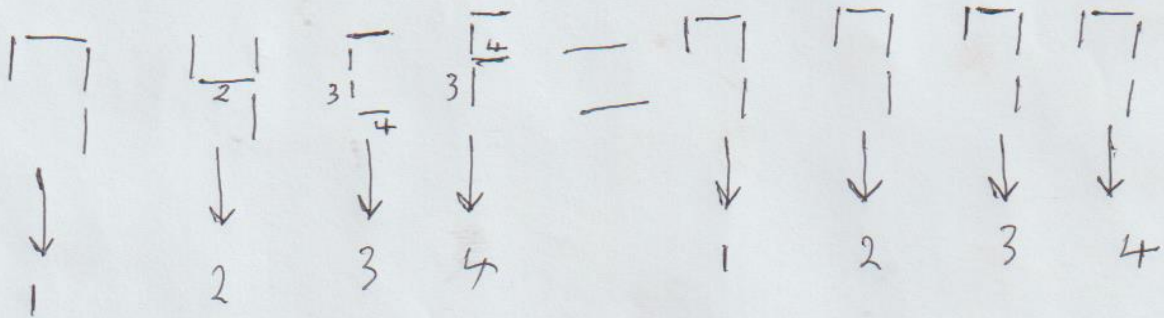
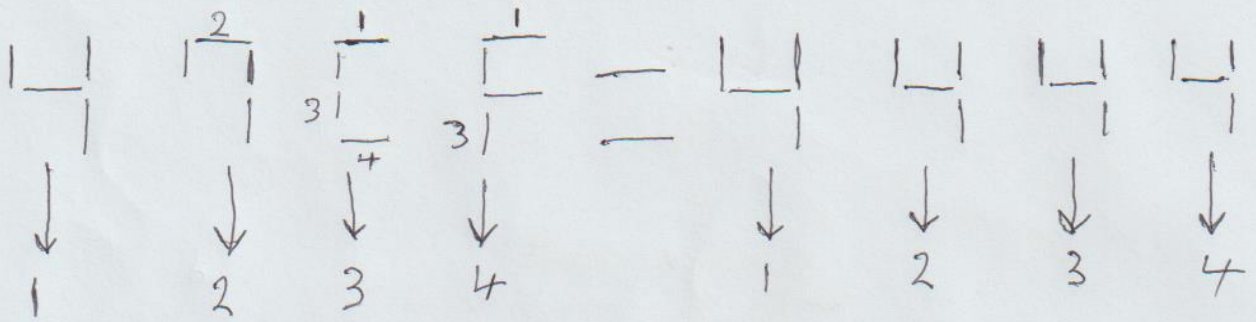
$$\begin{array}{c} 1 \\ 21 \\ \hline 31 \\ \hline 4 \end{array} = \begin{array}{c} 1111 \\ \downarrow \downarrow \downarrow \downarrow \\ 1234 \end{array} = \begin{array}{c} 4 = 4 \\ 1234 = 1234 \end{array}$$

Count as Segment 1, Segment 2,  
Segment 3, Segment 4.

They have four-four segments

That is  $4 = 4$  or  $1234 = 1234$







$$\begin{array}{r|l} 6 & 1 \\ \hline 5 & 4 \end{array} \begin{array}{l} 2 \\ 3 \end{array} = \begin{array}{cccccc} 1 & 1 & 1 & 1 & 1 & 1 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 1 & 2 & 3 & 4 & 5 & 6 \end{array} = \begin{array}{l} b = b \\ 123456 = 123456 \end{array}$$

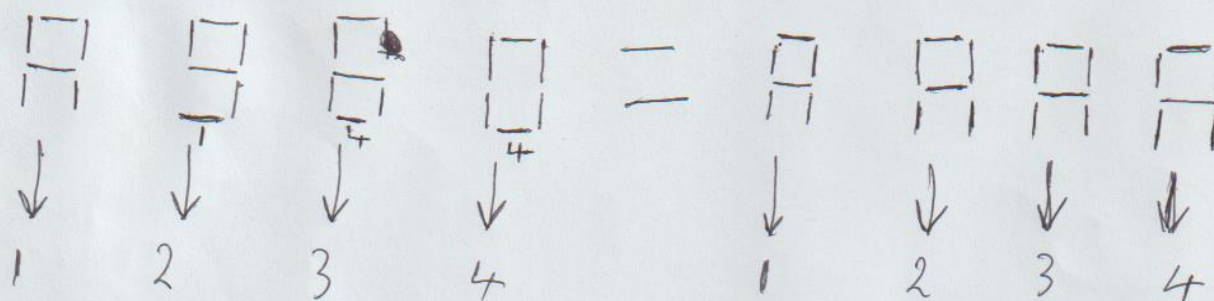
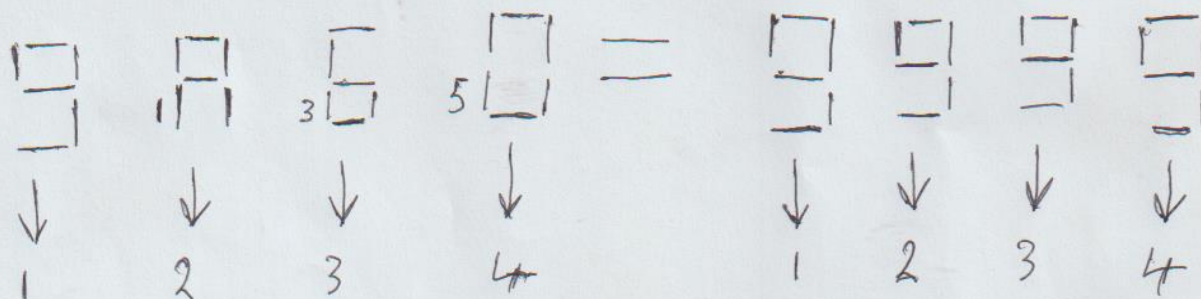
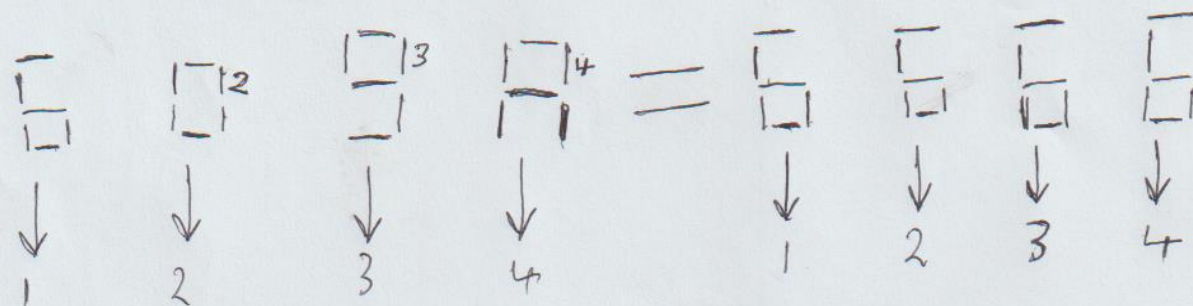
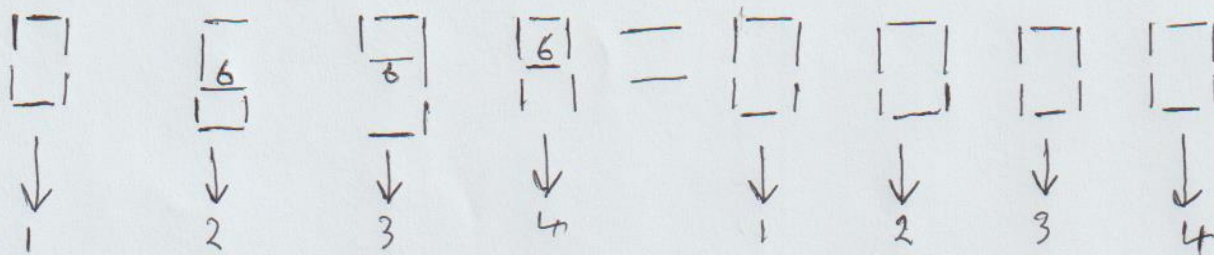
$$\begin{array}{r|l} 1 & \\ \hline 2 & 6 \\ \hline 3 & 5 \end{array} \begin{array}{l} \\ 4 \end{array} = \begin{array}{cccccc} 1 & 1 & 1 & 1 & 1 & 1 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 1 & 2 & 3 & 4 & 5 & 6 \end{array} = \begin{array}{l} b = b \\ 123456 = 123456 \end{array}$$

$$\begin{array}{r|l} 4 & \\ \hline 5 & 3 \\ \hline 6 & 2 \\ \hline 1 & \end{array} = \begin{array}{cccccc} 1 & 1 & 1 & 1 & 1 & 1 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 1 & 2 & 3 & 4 & 5 & 6 \end{array} = \begin{array}{l} b = b \\ 123456 = 123456 \end{array}$$

$$\begin{array}{r|l} 3 & \\ \hline 2 & 6 \\ \hline 1 & 5 \end{array} \begin{array}{l} 4 \\ 2 \end{array} = \begin{array}{cccccc} 1 & 1 & 1 & 1 & 1 & 1 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 1 & 2 & 3 & 4 & 5 & 6 \end{array} = \begin{array}{l} b = b \\ 123456 = 123456 \end{array}$$

Count as Segment 1, Segment 2,  
Segment 3, Segment 4, Segment 5,  
Segment 6.

They have Six-Six Segments  
that is  $b = b$  or  $123456 = 123456$ .





# CONVERSION OF SEVEN SEGMENTS EQUATION.

Convert the following to equal segmented (i) numbers (ii) Alphabets

(1) 357608 (2) 0123456789

(3) 235Ebd (4) 74cf (5) Abcdef

Solution

$$\begin{aligned}(1) \quad 357608 \\ &= 524968 \text{ SG} \\ &= b d c A A 8 \text{ SG} //\end{aligned}$$

$$(6) \quad 1000 = 1666 = 1A A A \text{ SG} //$$

$$\begin{aligned}(7) \quad 2000 \\ &= 3666 \text{ SG} \\ &= b A A A \text{ SG} //\end{aligned}$$

$$\begin{aligned}(2) \quad 0123456789 \\ &= 6135729480 \text{ SG} \\ &= A 1 b d c E A f 8 A \text{ SG} //\end{aligned}$$

$$\begin{aligned}(3) \quad 235Ebd \\ &= 352235 \text{ SG} \\ &= E b d E b d \text{ SG} //\end{aligned}$$

$$\begin{aligned}(4) \quad 74cf \\ &= 4747 \text{ SG} \\ &= c f c f \text{ SG} //\end{aligned}$$

$$\begin{aligned}(5) \quad A b c d e f \\ &= 024357 \text{ SG}\end{aligned}$$



## ADDITION OF SEVEN SEGMENTS EQUATION

$$(1) 2 + 4 = 16 \quad (2) 6 + 3 = 17$$

$$(3) 2 + 5 = 5 \quad (4) 5 + 3 = 7$$

Solution

$$\begin{aligned} (1) \quad 2 + 4 &= 16 \text{ SG} \\ &= 3 + 7 = 10 \\ &= 3 + 7 = 16 \text{ SG} \\ &= 10 = 16 \text{ SG} \end{aligned}$$

$$\begin{aligned} (2) \quad 6 + 3 &= 17 \text{ SG} \\ &= 9 + 5 = 14 \\ &= 9 + 5 = 17 \text{ SG} \\ &14 = 17 \text{ SG} \end{aligned}$$

$$\begin{aligned} (3) \quad 2 + 5 &= 5 \text{ SG} \\ 3 + 2 &= 5 \text{ SG} \\ 5 &= 5 // \end{aligned}$$

$$\begin{aligned} (4) \quad 5 + 3 &= 7 \text{ SG} \\ 2 + 5 &= 7 \\ 7 &= 7 // \end{aligned}$$

## SUBTRACTION OF SEVEN SEGMENTS EQUATION

$$\begin{aligned} (1) \quad 3 - 2 &= 2 \text{ SG} \\ &= 5 - 3 = 2 \\ 2 &= 2 // \end{aligned}$$

$$\begin{aligned} (3) \quad 1 - 0 &= -5 \text{ SG} \\ &= 1 - 6 = -5 \\ -5 &= -5 // \end{aligned}$$

$$\begin{aligned} (2) \quad 2 - 5 &= 1 \text{ SG} \\ &= 3 - 2 = 1 \\ 1 &= 1 // \end{aligned}$$

$$\begin{aligned} (4) \quad 4 - 0 &= 1 \text{ SG} \\ &= 7 - 6 = 1 \\ 1 &= 1 // \end{aligned}$$

SG = SEVEN SEGMENTS

## MULTIPLICATION OF SEVEN SEGMENTS EQUATION

- (1)  $2 \times 3 = 12$  SG (2)  $4 \times 5 = 17$  SG  
(3)  $5 \times 7 = 88$  SG (4)  $6 \times 3 = 72$  SG.

### Solution

(1)  $2 \times 3 = 12$  SG (3)  $5 \times 7 = 88$  SG  
 $= 3 \times 5 = 15$   
 $15 = 12$  SG  
 $12 = 12$  //

(2)  $4 \times 5 = 17$  SG (4)  $6 \times 3 = 72$  SG  
 $7 \times 2 = 14$   
 $14 = 17$  SG  
 $17 = 17$  //

## DIVISION OF SEVEN SEGMENTS EQUATION.

- (1)  $7 \div 5 = 2$  SG (2)  $0 \div 5 = 3$  SG  
(3)  $8 \div 5 = 7$  SG

### Solution

(1)  $7 \div 5 = 2$  SG  
 $= 4 \div 2 = 2$  //

(2)  $0 \div 5 = 3$  SG  
 $= 6 \div 2 = 3$  //

(3)  $8 \div 5 = 7$  SG  
 $= 8 \div 2 = 4$   
 $4 = 7$  SG  
 $7 = 7$  //



# USES OF SEGMENT EQUATION

in a Computer Motherboard or  
phone PCB or any PCB:

The faulty parts must be change with  
an equal (1) pins (2) terminals (3) holes

(4) size

let us assume VGA Port pins as  
Segments.

14-pin VGA Port

15-pin VGA Port

14-pin VGA Port is faulty

You can't change it with a  
15-pin VGA port, because They are  
not equal in segments.

$\begin{array}{cccccccccccc} | & | & | & | & | & | & | & | & | & | & | & | & | \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 1, & 2, & 3, & 4, & 5, & 6, & 7, & 8, & 9, & 10, & 11, & 12, & 13, & 14 \end{array}$  is not equal to

$\neq \begin{array}{cccccccccccccc} | & | & | & | & | & | & | & | & | & | & | & | & | & | \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 1, & 2, & 3, & 4, & 5, & 6, & 7, & 8, & 9, & 10, & 11, & 12, & 13, & 14, & 15. \end{array}$

Segment 1 to Segment 14

$\neq$  Segment 1 to Segment 15

14