

## CEREBRAL SUM

THE AIM OF CEREBRAL SUM IS TO FILL IN EACH ROW WITH 4 NUMBERS.

THE FOUR NUMBERS WHEN ADDED UP MUST BE EQUAL TO THE NUMBER IN THE SUM VALUE BOX.

WHEN ALL THE COLUMNS ARE FILLED, ADD ALL FOUR NUMBERS TO EQUAL THE TOTAL SUM VALUE WHICH IS AT THE BOTTOM OF THE BOX.

YOU CANNOT USE THE SAME COMBINATION IN MORE THAN ONE ROW. FOR EXAMPLE; IF YOU USE  $1+2+3+3 =$  SUM VALUE 9; YOU CANNOT USE IT IN ANOTHER ROW, IN THE SAME BOX..

YOU CAN USE ANY NUMBER FROM 0-9 IN ANY ROW IN ASCENDING ORDER ONLY, EXAMPLE:  
 $1+2+3$ . NOT

$2+3+1$ .

AT NO TIME SHOULD A GREATER NUMBER BE PLACED BEFORE A LESSER NUMBER, EXAMPLE:  $5+3+1=9$  .

PLEASE NOTE THAT THE LOWER NUMBER WILL ALWAYS BE TO THE LEFT, MOVING FROM LESSER TO GREATER.

Sample A

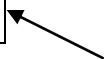
ROW1 ROW2 ROW3 ROW4 SV 9

1	1	1	6	9
1	2	2	4	9
0	2	2	5	9
0	0	4	5	9
0	0	1	8	9
0	1	2	6	9



Ans. goes here

2	7	5	4
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TOTAL SUM VALUE

## SIMPLE STEPS

Once you have filled in all the rows, you need to add all four columns, starting from right to left of course.

As you can see, all you have to do to get the answer is simple addition.

Now let's look at example A: When the 4<sup>th</sup> row is added up it equals 34, so we put 4 and carry 3 to the next column

which is column 3.

Now carrying the 3 to column 3, it equals 15; enter the 5 and carry the 1 to the 2<sup>nd</sup> column.

Add the carry 1 to column 2, it equals 7.

Add column 1, it equals 2. So that is how we arrived at:

TOTAL SUM VALUE 2 7 5 4

SV = SUM VALUE

TSV = TOTAL SUM VALUE

## INTRODUCTION

Like thousands of people around the globe  
I have become addicted to solving puzzles.  
To satisfy my cravings for even more,  
I decided to create my own collections of Cerebral Sum and  
now I am proud to be  
sharing this collection with you.

I had lots of fun working on this  
brain teaser.

I hope you will enjoy Cerebral Sum  
as much as I do.

Leopold Pryce  
Toronto, 2007

GOOD LUCK

TIPS

Most people find it easier to start from right to left because the next number after the highest number must be of the same value or less, e.g., blank +3+6 = 9 or blank+blank+6 = 9.

Starting with the number 6, one can see clearly that the next number will be less than 6.

As you can see in EXAMPLE A; all the rows start in ascending order only (always from least to greatest).

There are four numbers to a row. Each row must start with the lowest number and end with the highest number.

If you were given a problem with just 2 digits, in this case, 2+2+ blank, = 9 how would you go about solving it? Well you would have to find the two numbers that when added to 2+2 would yield 9. If you start from the right you will find the solution to the problem much faster.

Once you have found the right sum value you will now have to add all 4 columns which must match up with the TOTAL SUM VALUE which is at the bottom of the box.

Give it a try and don't be afraid to try your hand at different METHODS; you may eventually find the one that works best for you.

## **Benefits of Cerebral Sum**

Research has shown that Brain Teasers are considered healthy for the brain

Most of us already are aware that keeping our physical bodies active and healthy is important in preventing illness and a healthy body gives one a good feeling. This is the same attitude we need to take with our brain's health. Anything that is considered healthy and beneficial for the rest of your body is also considered healthy for your brain.

There are a few things you can do specifically to ward off memory loss:

Most importantly, **EXERCISE YOUR BRAIN!**

### **EXERCISE YOUR BRAIN**

Anything that challenges your mind causing you to learn new information or skills is considered an exercise. Here are some benefits for doing Cerebral Sum.

- IMPROVE MEMORY
- IMPROVE MATHEMATICAL ABILITIES
- MOTIVATE STUDENTS TO DEVELOP PROBLEM SOLVING SKILLS IN A FUN AND CHALLENGING WAY.

## **POINTS TO CONSIDER**

Teachers recommend using Cerebral Sum as a TRANSITIONAL activity that students can do after they have completed their assignments.

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