

# Mental Math

## Instructions

Mental Math exercises help students add a series of one digit numbers without using pencil and paper, or their fingers.

The Mental Math masters range from simple to difficult. Each master is designed with 12 columns of digits grouped by tens, separated by dotted lines.

Make a copy of the page that is appropriate for the ability level of your student(s).

- Mental Math 1 - Digits 1-4
- Mental Math 2 - Digits 1-6
- Mental Math 3 - Digits 1-9

The student(s) do not get a copy.

Using Mental Math for Addition:

**Step 1.** Draw a line under one of the digits in one of the columns.

*Example below: 1st column, 6th digit down, line under the 3. If you total the digits above that line, you get 15.*

*If you look at each column on the sheet, you will see that the first four digits all total 10. Add the digits below the line (2+3) to 10, to get 15.*

**Step 2.** Randomly call out digits above your line to the class, checking off each number as you read it. The students need to add as you read.

**Steps 3.** When you have given all the digits down to your line, ask for the answer (15).

Using Mental Math for Subtraction:

Using the same example below: randomly call out the numbers below your line, between 15 & 30. Check off numbers as you give them. Students need to subtract the numbers from 30 to get the answer 15.

(1)

Mental Math - 1					
	1	3	4	2	1
	2	2	3	3	2
	3	3	2	2	3
<b>10</b>	4	2	1	3	4
-----					
	2	1	3	4	2
	<u>3</u>	2	2	3	3
	2	3	3	2	2
<b>20</b>	3	4	2	1	3
-----					
	4	2	1	3	4
	3	3	2	2	3
	2	2	3	3	2
<b>30</b>	1	3	4	2	1

(2)

Mental Math - 1					
	1	✓ 3	4	2	1
	2	2	3	3	2
	3	3	2	2	3
<b>10</b>	4	✓ 2	1	3	4
-----					
	2	✓ 1	3	4	2
	<u>3</u>	✓ 2	2	3	3
	2	3	3	2	2
<b>20</b>	3	4	2	1	3
-----					
	4	2	1	3	4
	3	3	2	2	3
	2	2	3	3	2
<b>30</b>	1	3	4	2	1

(3)

Mental Math - 1					
	1	✓ 3	4	2	1
	2	✓ 2	3	3	2
	3	✓ 3	2	2	3
<b>10</b>	4	✓ 2	1	3	4
-----					
	2	✓ 1	3	4	2
	<u>3</u>	✓ 2	2	3	3
	2	3	3	2	2
<b>20</b>	3	4	2	1	3
-----					
	4	2	1	3	4
	3	3	2	2	3
	2	2	3	3	2
<b>30</b>	1	3	4	2	1

## Mental Math – 1

	1	3	4	2	1	3	4	2	1	3	4	2
	2	2	3	3	2	2	3	3	2	2	3	3
	3	3	2	2	3	3	2	2	3	3	2	2
<b>10</b>	4	2	1	3	4	2	1	3	4	2	1	3

	2	1	3	4	2	1	3	4	2	1	3	4
	3	2	2	3	3	2	2	3	3	2	2	3
	2	3	3	2	2	3	3	2	2	3	3	2
<b>20</b>	3	4	2	1	3	4	2	1	3	4	2	1

	4	2	1	3	4	2	1	3	4	2	1	3
	3	3	2	2	3	3	2	2	3	3	2	2
	2	2	3	3	2	2	3	3	2	2	3	3
<b>30</b>	1	3	4	2	1	3	4	2	1	3	4	2

	1	3	4	2	1	3	4	2	1	3	4	2
	2	2	3	3	2	2	3	3	2	2	3	3
	3	3	2	2	3	3	2	2	3	3	2	2
<b>10</b>	4	2	1	3	4	2	1	3	4	2	1	3

	2	1	3	4	2	1	3	4	2	1	3	4
	3	2	2	3	3	2	2	3	3	2	2	3
	2	3	3	2	2	3	3	2	2	3	3	2
<b>20</b>	3	4	2	1	3	4	2	1	3	4	2	1

	4	2	1	3	4	2	1	3	4	2	1	3
	3	3	2	2	3	3	2	2	3	3	2	2
	2	2	3	3	2	2	3	3	2	2	3	3
<b>30</b>	1	3	4	2	1	3	4	2	1	3	4	2

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## Mental Math – 2

	5	2	3	4	1	5	2	5	2	3	4	1
	2	4	5	2	5	3	3	2	4	5	2	5
<b>10</b>	3	4	2	4	4	2	5	3	4	2	4	4
	3	5	1	2	4	5	2	3	5	1	2	4
	4	2	4	3	3	1	6	4	2	4	3	3
<b>20</b>	3	3	5	5	3	4	2	3	3	5	5	3
	1	2	4	5	2	3	5	1	2	4	5	2
	4	3	3	1	6	4	2	4	3	3	1	6
<b>30</b>	5	5	3	4	2	3	3	5	5	3	4	2
	5	2	3	4	1	5	2	5	2	3	4	1
	2	4	5	2	5	3	3	2	4	5	2	5
<b>40</b>	3	4	2	4	4	2	5	3	4	2	4	4
	1	2	4	5	2	3	5	1	2	4	5	2
	4	3	3	1	6	4	2	4	3	3	1	6
<b>50</b>	5	5	3	4	2	3	3	5	5	3	4	2

	5	2	3	4	1	5	2	5	2	3	4	1
	2	4	5	2	5	3	3	2	4	5	2	5
<b>10</b>	3	4	2	4	4	2	5	3	4	2	4	4
	3	5	1	2	4	5	2	3	5	1	2	4
	4	2	4	3	3	1	6	4	2	4	3	3
<b>20</b>	3	3	5	5	3	4	2	3	3	5	5	3
	1	2	4	5	2	3	5	1	2	4	5	2
	4	3	3	1	6	4	2	4	3	3	1	6
<b>30</b>	5	5	3	4	2	3	3	5	5	3	4	2
	5	2	3	4	1	5	2	5	2	3	4	1
	2	4	5	2	5	3	3	2	4	5	2	5
<b>40</b>	3	4	2	4	4	2	5	3	4	2	4	4
	1	2	4	5	2	3	5	1	2	4	5	2
	4	3	3	1	6	4	2	4	3	3	1	6
<b>50</b>	5	5	3	4	2	3	3	5	5	3	4	2

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### Mental Math – 3

<b>10</b>	3 7	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3
<b>20</b>	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2
<b>30</b>	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2	9 1
<b>40</b>	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2	9 1	3 7
<b>50</b>	7 3	8 2	9 1	3 7	4 6	5 5	4 6	7 3	8 2	9 1	3 7	4 6
<b>60</b>	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5
<b>70</b>	9 1	3 7	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4
<b>80</b>	3 7	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3
<b>90</b>	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2
<b>100</b>	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2	9 1

<b>10</b>	3 7	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3
<b>20</b>	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2
<b>30</b>	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2	9 1
<b>40</b>	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2	9 1	3 7
<b>50</b>	7 3	8 2	9 1	3 7	4 6	5 5	4 6	7 3	8 2	9 1	3 7	4 6
<b>60</b>	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5
<b>70</b>	9 1	3 7	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4
<b>80</b>	3 7	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3
<b>90</b>	4 6	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2
<b>100</b>	5 5	6 4	7 3	8 2	9 1	3 7	4 6	5 5	6 4	7 3	8 2	9 1