



# Mental Math Eligibility Exam Book

Name: \_\_\_\_\_

School: \_\_\_\_\_ Grade: \_\_\_\_\_



## Instructions:

1. Students must complete the mental math eligibility exam book.
2. Students must complete each section one by one and record the time it takes to complete each section.
3. Students are encouraged to answer as much as possible, as some sections may be above their grade level and may be left blank.



**SECTION 1**  
**Addition and Subtraction 1 - 9**

Time Taken:

A	B	C	D	E
$3$ $-1$	$2$ $-1$	$2$ $+1$	$4$ $-2$	$2$ $+2$

F	G	H	I	J
$1$ $+1$	$2$ $-2$	$4$ $-1$	$3$ $+1$	$1$ $+2$

K	L	M	N	O
$1$ $+4$	$4$ $-4$	$1$ $+3$	$2$ $+3$	$4$ $-3$

P	Q	R	S	T
$3$ $-3$	$3$ $+3$	$3$ $+2$	$5$ $-3$	$5$ $-2$

Continue 



<b>U</b>	<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>
<b>4</b> <b>+1</b>	<b>5</b> <b>-4</b>	<b>5</b> <b>-1</b>	<b>3</b> <b>-2</b>	<b>0</b> <b>+3</b>

<b>Z</b>	<b>AA</b>	<b>AB</b>	<b>AC</b>	<b>AD</b>
<b>5</b> <b>-5</b>	<b>1</b> <b>+2</b>	<b>4</b> <b>-3</b>	<b>3</b> <b>+1</b>	<b>2</b> <b>+2</b>

<b>AE</b>	<b>AF</b>	<b>AG</b>	<b>AH</b>	<b>AI</b>
<b>3</b> <b>+6</b>	<b>1</b> <b>+7</b>	<b>2</b> <b>+6</b>	<b>3</b> <b>+5</b>	<b>4</b> <b>+5</b>

<b>AJ</b>	<b>AK</b>	<b>AL</b>	<b>AM</b>	<b>AN</b>
<b>2</b> <b>+7</b>	<b>9</b> <b>-2</b>	<b>8</b> <b>-3</b>	<b>9</b> <b>-4</b>	<b>7</b> <b>-5</b>

Continue →



<b>AO</b>	<b>AP</b>	<b>AQ</b>	<b>AR</b>	<b>AS</b>
<b>1</b> <b>+5</b>	<b>6</b> <b>-2</b>	<b>4</b> <b>+2</b>	<b>7</b> <b>-6</b>	<b>9</b> <b>-5</b>

<b>AT</b>	<b>AU</b>	<b>AV</b>	<b>AW</b>	<b>AX</b>
<b>8</b> <b>-4</b>	<b>5</b> <b>+2</b>	<b>9</b> <b>-3</b>	<b>6</b> <b>-5</b>	<b>6</b> <b>-3</b>

<b>AY</b>	<b>AZ</b>	<b>BA</b>	<b>BB</b>	<b>BC</b>
<b>4</b> <b>+3</b>	<b>9</b> <b>-8</b>	<b>7</b> <b>+2</b>	<b>6</b> <b>-4</b>	<b>8</b> <b>-7</b>

<b>BD</b>	<b>BE</b>	<b>BF</b>	<b>BG</b>	<b>BH</b>
<b>9</b> <b>-1</b>	<b>2</b> <b>+4</b>	<b>6</b> <b>+3</b>	<b>9</b> <b>-7</b>	<b>8</b> <b>-5</b>

Stop and record  
your time on page no. 1



**SECTION 2**  
**Addition and Subtraction 10 - 99**

Time Taken:

Fill in the box to make a 10

6		5		9		2		8	
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4		7		3		10		1	
---	--	---	--	---	--	----	--	---	--

A	B	C	D	E
12 +15	11 +15	16 +13	10 +14	15 -13

F	G	H	I	J
13 -10	15 +15	14 +13	14 -11	15 -11

K	L	M	N	O
17 +3	18 +5	24 +6	21 +9	22 -19

P	Q	R	S	T
20 +10	28 -17	29 -27	27 -19	30 -24

Continue →



<b>U</b>	<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>
<b>42</b> <b>-34</b>	<b>44</b> <b>+16</b>	<b>30</b> <b>+28</b>	<b>48</b> <b>+11</b>	<b>43</b> <b>-37</b>

<b>Z</b>	<b>AA</b>	<b>AB</b>	<b>AC</b>	<b>AD</b>
<b>13</b> <b>+37</b>	<b>48</b> <b>+16</b>	<b>53</b> <b>+7</b>	<b>60</b> <b>-42</b>	<b>59</b> <b>-17</b>

<b>AE</b>	<b>AF</b>	<b>AG</b>	<b>AH</b>	<b>AI</b>
<b>46</b> <b>-22</b>	<b>37</b> <b>+12</b>	<b>50</b> <b>-25</b>	<b>26</b> <b>+34</b>	<b>35</b> <b>+15</b>

<b>AJ</b>	<b>AK</b>	<b>AL</b>	<b>AM</b>	<b>AN</b>
<b>38</b> <b>+12</b>	<b>45</b> <b>-32</b>	<b>58</b> <b>-25</b>	<b>59</b> <b>-40</b>	<b>36</b> <b>+13</b>

Continue →



<b>AO</b>	<b>AP</b>	<b>AQ</b>	<b>AR</b>	<b>AS</b>
<b>77</b> <b>-45</b>	<b>23</b> <b>+70</b>	<b>77</b> <b>+19</b>	<b>80</b> <b>-67</b>	<b>79</b> <b>-46</b>

<b>AT</b>	<b>AU</b>	<b>AV</b>	<b>AW</b>	<b>AX</b>
<b>95</b> <b>-74</b>	<b>90</b> <b>-83</b>	<b>88</b> <b>-79</b>	<b>87</b> <b>-46</b>	<b>29</b> <b>+70</b>

<b>AY</b>	<b>AZ</b>	<b>BA</b>	<b>BB</b>	<b>BC</b>
<b>91</b> <b>-77</b>	<b>94</b> <b>-88</b>	<b>88</b> <b>-63</b>	<b>81</b> <b>-55</b>	<b>12</b> <b>+80</b>

<b>BD</b>	<b>BE</b>	<b>BF</b>	<b>BG</b>	<b>BH</b>
<b>61</b> <b>-27</b>	<b>62</b> <b>-48</b>	<b>79</b> <b>-35</b>	<b>45</b> <b>+45</b>	<b>99</b> <b>-55</b>

<b>BI</b>	<b>BJ</b>	<b>BK</b>	<b>BL</b>	<b>BM</b>
<b>37</b> <b>+45</b>	<b>98</b> <b>-72</b>	<b>42</b> <b>+37</b>	<b>93</b> <b>-74</b>	<b>25</b> <b>+43</b>

Stop and record  
your time on page no. 4



**SECTION 3**  
**Long Addition and Subtraction**

Time Taken:

A	B	C	D	E	F	G	H	I	J
6	8	7	5	10	5	9	2	3	7
+3	-6	+5	+9	-7	+6	-2	+5	+6	+8
+1	+5	+6	+4	+4	+7	+4	+2	+4	+3
+5	-2	-4	-6	-5	-7	-7	-3	-5	-6
-6	+4	-6	-3	+6	-5	+3	+4	-2	-4

K	L	M	N	O	P	Q	R	S	T
12	10	33	38	23	22	29	58	18	37
+13	+36	+11	+26	+21	+66	+19	+62	+36	+46
+11	+45	+29	+44	+45	+77	+26	+49	+70	+88

U	V	W	X	Y	Z	AA	AB	AC	AD
534	652	214	370	633	790	890	479	123	300
+325	+201	+625	+240	+217	+280	+265	+325	+456	+289
+469	+255	+111	+148	+250	325	+135	+623	+789	+387

Stop and record  
your time on this page



**SECTION 4**  
**Word Problem**

Time Taken:

**A.** A hotel elevator was called up 67 floors from ground level. It went up 21 stories, then down 55 floors. The elevator went down 17 more stories, then went up 31 floors and then another 13 more stories up. What floor level is the elevator at right now?

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**B.** A fish store had 42 guppies in a tank. The store also sold 17 guppies that week. On their next two orders, they bought 21 guppies and then 51 guppies to fill another tank. Then the store sold 56 guppies before buying another 31 guppies. How many guppies does the store have now?

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**C.** A pet store has a total of 91 cats and dogs. One month they sold 36 dogs and 35 cats and received 21 dogs and 19 cats to replace them. The next week, they sold a total of 19 cats and dogs. How many total cats and dogs does the store have now?

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**D.** A bag of marbles originally had 17 marbles. 42 marbles were added to the bag and then 15 were given away. Later on, 19 more marbles were given away. 13 marbles were added to the bag along with 21 more marbles were added. How many marbles are in the bag?

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Stop and record  
your time on this page



**SECTION 5**  
**Multiplication & Division**

Time Taken:

MULTIPLICATION	
A	$5 \times 3 =$
B	$3 \times 9 =$
C	$6 \times 4 =$
D	$2 \times 8 =$
E	$4 \times 8 =$
F	$9 \times 4 =$
G	$8 \times 8 =$
H	$9 \times 7 =$
I	$5 \times 9 =$
J	$7 \times 6 =$

DIVISION	
K	$8 \div 2 =$
L	$9 \div 3 =$
M	$10 \div 5 =$
N	$18 \div 9 =$
O	$24 \div 6 =$
P	$16 \div 2 =$
Q	$27 \div 3 =$
R	$56 \div 7 =$
S	$81 \div 9 =$
T	$54 \div 6 =$

Continue 



MULTIPLICATION	
U	$13 \times 3 =$
V	$13 \times 9 =$
W	$16 \times 4 =$
X	$15 \times 8 =$
Y	$17 \times 8 =$
Z	$19 \times 4 =$
AA	$18 \times 8 =$
AB	$12 \times 7 =$
AC	$12 \times 9 =$
AD	$14 \times 6 =$
AE	$121 \times 3 =$
AF	$236 \times 4 =$
AG	$552 \times 6 =$
AH	$438 \times 7 =$
AI	$134 \times 9 =$
AJ	$721 \times 5 =$

DIVISION	
AK	$48 \div 4 =$
AL	$81 \div 9 =$
AM	$42 \div 3 =$
AN	$64 \div 4 =$
AO	$96 \div 8 =$
AP	$75 \div 3 =$
AQ	$108 \div 9 =$
AR	$125 \div 5 =$
AS	$104 \div 4 =$
AT	$171 \div 9 =$
AU	$437 \div 23 =$
AV	$735 \div 21 =$
AW	$552 \div 25 =$
AX	$828 \div 12 =$
AY	$624 \div 13 =$
AZ	$950 \div 16 =$

Stop and record  
your time on page no. 9



# Grading

Note: Grading will be done by Sapience.

	TOTAL PROBLEMS	TIME TAKEN	TOTAL ANSWERED	TOTAL CORRECT
<b>SECTION 1</b>	<b>60</b>			
<b>SECTION 2</b>	<b>75</b>			
<b>SECTION 3</b>	<b>30</b>			
<b>SECTION 4</b>	<b>4</b>			
<b>SECTION 5</b>	<b>52</b>			

Eligible for \_\_\_\_\_ Circuit

Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

