



# **Global Mental Math Olympiad 2024**

## **Practice Sheet 3**

### **Master Category (Ages 9-11)**

#### **Section 1**

<b>Question Content</b>	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>	<b>Option 4</b>
$9 + 7 + 4 = \underline{\quad}$	18	11	22	20
$9 + 1 + 1 = \underline{\quad}$	11	8	5	3
$3 + 1 + 9 = \underline{\quad}$	13	20	9	19
$4 + 2 + 3 = \underline{\quad}$	5	9	13	8
$5 + 5 + 5 = \underline{\quad}$	8	11	15	12
$5 + 4 + 3 = \underline{\quad}$	12	7	17	14
$5 + 7 + 3 = \underline{\quad}$	8	15	9	6
$1 + 2 + 8 = \underline{\quad}$	17	16	11	12
$4 + 2 + 6 = \underline{\quad}$	18	16	12	7
$1 + 8 + 7 = \underline{\quad}$	13	14	7	16
$9 + 6 - 3 = \underline{\quad}$	15	14	12	16
$8 + 7 - 2 = \underline{\quad}$	5	18	13	11
$9 + 7 - 1 = \underline{\quad}$	14	16	22	15
$5 + 4 - 3 = \underline{\quad}$	13	6	5	15
$8 + 2 - 1 = \underline{\quad}$	9	3	17	11
$7 + 7 - 7 = \underline{\quad}$	10	15	7	16
$9 + 9 - 4 = \underline{\quad}$	11	14	12	21
$8 + 5 - 3 = \underline{\quad}$	10	15	8	18
$6 + 6 - 4 = \underline{\quad}$	8	7	16	1
$7 + 5 - 3 = \underline{\quad}$	5	16	17	9

#### **Section 2**

<b>Question Content</b>	<b>Option 1</b>	<b>Option 2</b>	<b>Option 3</b>	<b>Option 4</b>
$26 + 9 = \underline{\quad}$	35	27	37	38
$65 + 4 = \underline{\quad}$	77	69	68	71
$15 + 1 = \underline{\quad}$	7	24	14	16
$11 + 1 = \underline{\quad}$	17	14	6	12
$89 + 9 = \underline{\quad}$	98	107	95	106



$48 + 2 = \underline{\quad}$	54	48	45	50
$54 + 7 = \underline{\quad}$	58	66	61	56
$32 + 9 = \underline{\quad}$	41	35	36	43
$57 + 8 = \underline{\quad}$	65	66	56	63
$57 + 4 = \underline{\quad}$	61	64	57	55
$70 - 3 = \underline{\quad}$	65	67	70	58
$66 - 2 = \underline{\quad}$	67	66	64	56
$94 - 9 = \underline{\quad}$	90	94	85	88
$32 - 8 = \underline{\quad}$	18	33	24	15
$62 - 8 = \underline{\quad}$	60	56	49	54
$25 - 7 = \underline{\quad}$	9	25	17	18
$63 - 9 = \underline{\quad}$	54	63	51	48
$63 - 1 = \underline{\quad}$	70	56	62	67
$76 - 9 = \underline{\quad}$	59	67	74	73
$16 - 5 = \underline{\quad}$	13	11	18	2

### Section 3

Question Content	Option 1	Option 2	Option 3	Option 4
Double of 1 + Half of 68 = $\underline{\quad}$	39	33	36	31
Double of 2 + Half of 48 = $\underline{\quad}$	28	36	24	25
Double of 3 + Half of 98 = $\underline{\quad}$	60	53	55	50
Double of 5 + Half of 38 = $\underline{\quad}$	36	35	29	26
Double of 1 + Half of 46 = $\underline{\quad}$	25	20	31	17

### Section 4

Question Content	Option 1	Option 2	Option 3	Option 4
Half of 68 - Double of 2 = $\underline{\quad}$	31	30	25	32
Half of 80 - Double of 8 = $\underline{\quad}$	20	31	24	30
Half of 94 - Double of 7 = $\underline{\quad}$	36	33	26	42
Half of 50 - Double of 2 = $\underline{\quad}$	21	28	25	23
Half of 56 - Double of 2 = $\underline{\quad}$	33	30	26	24
Half of 94 - Double of 3 = $\underline{\quad}$	44	50	41	37
Half of 62 - Double of 1 = $\underline{\quad}$	29	30	25	21
Half of 92 - Double of 5 = $\underline{\quad}$	36	45	38	40
Half of 72 - Double of 3 = $\underline{\quad}$	30	27	26	36
Half of 32 - Double of 8 = $\underline{\quad}$	9	6	5	0



### Section 5

Question Content	Option 1	Option 2	Option 3	Option 4
$67 + 1 + 3 = \underline{\quad}$	71	68	73	72
$85 + 6 + 6 = \underline{\quad}$	101	97	88	91
$34 + 3 + 3 = \underline{\quad}$	37	40	49	38
$32 + 9 + 1 = \underline{\quad}$	48	34	43	42
$65 + 4 + 3 = \underline{\quad}$	77	65	72	73
$36 + 1 + 3 = \underline{\quad}$	34	40	45	37
$29 + 9 + 5 = \underline{\quad}$	43	50	36	52
$69 + 7 + 1 = \underline{\quad}$	73	77	70	80
$44 + 6 + 1 = \underline{\quad}$	57	47	51	54
$79 + 6 + 4 = \underline{\quad}$	83	98	89	82
$24 + 1 - 1 = \underline{\quad}$	26	33	32	24
$77 + 2 - 1 = \underline{\quad}$	76	74	70	78
$69 + 9 - 8 = \underline{\quad}$	70	72	78	64
$35 + 6 - 5 = \underline{\quad}$	34	36	43	32
$25 + 8 - 4 = \underline{\quad}$	35	29	34	37
$11 + 8 - 8 = \underline{\quad}$	13	15	10	11
$88 + 3 - 1 = \underline{\quad}$	82	92	88	90
$34 + 9 - 4 = \underline{\quad}$	47	39	32	38
$98 + 8 - 2 = \underline{\quad}$	102	109	104	112
$86 + 6 - 3 = \underline{\quad}$	89	85	82	87
$93 - 5 + 3 = \underline{\quad}$	91	95	86	93
$89 - 8 + 3 = \underline{\quad}$	81	86	88	84
$60 - 8 + 1 = \underline{\quad}$	59	52	60	53
$73 - 6 + 4 = \underline{\quad}$	70	62	79	71
$31 - 8 + 3 = \underline{\quad}$	31	35	21	26
$96 - 9 + 1 = \underline{\quad}$	81	95	91	88
$83 - 6 + 4 = \underline{\quad}$	80	79	81	86
$71 - 3 + 1 = \underline{\quad}$	74	69	60	65
$14 - 7 + 3 = \underline{\quad}$	10	5	4	12
$79 - 8 + 2 = \underline{\quad}$	68	70	74	73



### Section 6

Question Content	Option 1	Option 2	Option 3	Option 4
$10 \times 10 = \underline{\quad}$	109	98	95	100
$62 \times 10 = \underline{\quad}$	616	625	629	620
$71 \times 10 = \underline{\quad}$	703	712	711	710
$49 \times 10 = \underline{\quad}$	482	494	498	490
$81 \times 10 = \underline{\quad}$	810	808	807	811
$75 \times 100 = \underline{\quad}$	7501	7493	7498	7500
$48 \times 100 = \underline{\quad}$	4800	4804	4794	4805
$95 \times 100 = \underline{\quad}$	9492	9508	9502	9500
$81 \times 100 = \underline{\quad}$	8103	8101	8100	8092
$91 \times 100 = \underline{\quad}$	9109	9108	9100	9098

### Section 7

Question Content	Option 1	Option 2	Option 3	Option 4
$74 \times 5 \times \underline{\quad} = 0$	7	1	0	9
$48 \times 4 \times \underline{\quad} = 0$	1	9	0	6
$28 \times 5 \times \underline{\quad} = 0$	3	4	8	0
$94 \times 1 \times \underline{\quad} = 0$	2	8	0	9
$45 \times 3 \times \underline{\quad} = 0$	0	8	1	9
$97 \times 4 \times 0 = \underline{\quad}$	7	2	5	0
$29 \times 3 \times 0 = \underline{\quad}$	0	2	7	4
$50 \times 8 \times 0 = \underline{\quad}$	3	5	0	2
$92 \times 1 \times 0 = \underline{\quad}$	7	1	0	2
$17 \times 6 \times 0 = \underline{\quad}$	7	0	3	8

### Section 8

Question Content	Option 1	Option 2	Option 3	Option 4
$3^2 = \underline{\quad}$	3	9	10	16
$8^2 = \underline{\quad}$	66	60	68	64
$5^2 = \underline{\quad}$	27	26	32	25
$7^2 = \underline{\quad}$	57	49	54	42
$9^2 = \underline{\quad}$	81	73	87	74
$6^2 = \underline{\quad}$	34	28	36	35
$4^2 = \underline{\quad}$	24	21	16	23
$8^3 = \underline{\quad}$	510	521	512	507



$9^3 = \_$	721	728	729	727
$3^3 = \_$	21	30	27	35
$6^3 = \_$	216	210	222	213
$5^3 = \_$	125	127	117	131
$7^3 = \_$	343	337	351	344
$2^3 = \_$	8	4	1	3
$4^3 = \_$	67	64	59	56
$2^3 + 1^2 + 3^2 = \_$	18	25	26	20
$9^3 + 2^2 + 1^2 = \_$	741	734	737	726
$9^3 + 6^2 + 1^2 = \_$	757	766	772	771
$9^3 + 5^2 + 9^2 = \_$	844	838	835	829
$8^3 + 4^2 + 9^2 = \_$	608	609	612	606
$6^2 + 5^2 - 3^2 = \_$	60	44	52	50
$9^2 + 7^2 - 3^2 = \_$	121	112	114	113
$7^2 + 2^2 - 2^2 = \_$	43	49	48	45
$7^2 + 7^2 - 2^2 = \_$	87	100	94	86
$9^2 + 3^2 - 2^2 = \_$	82	87	86	91
$8^3 + 8^2 - 6^2 = \_$	547	533	540	542
$6^2 + 6^2 - 1^3 = \_$	73	63	71	66
$8^3 + 9^2 - 3^2 = \_$	587	580	581	584
$7^3 + 9^2 - 3^2 = \_$	415	418	407	417
$8^3 + 7^2 - 3^2 = \_$	550	555	552	561

### Section 9

Question Content	Option 1	Option 2	Option 3	Option 4
Double of 66 - Half of 34 = $\_$	121	115	114	119
Double of 32 - Half of 4 = $\_$	60	64	57	62
Double of 20 - Half of 6 = $\_$	31	43	36	37
Double of 55 - Half of 28 = $\_$	104	96	92	91
Double of 95 - Half of 40 = $\_$	177	170	162	179

### Section 10

Question Content	Option 1	Option 2	Option 3	Option 4
$(4 + 9) \times (7 + 2) = \_$	117	115	123	120
$(2 + 6) \times (4 + 3) = \_$	60	56	47	58
$(8 + 4) \times (6 + 9) = \_$	180	189	182	179



$(5 + 7) \times (4 + 2) = \_$	78	76	72	70
$(2 + 2) \times (6 + 7) = \_$	54	50	52	59

### Section 11

Question Content	Option 1	Option 2	Option 3	Option 4
Triple of 69 = $\_$	215	202	209	207
Triple of 31 = $\_$	95	85	93	91
Triple of 59 = $\_$	185	177	179	180
Triple of 92 = $\_$	272	276	278	283
Triple of 58 = $\_$	179	174	172	168

### Section 12

Question Content	Option 1	Option 2	Option 3	Option 4
Half of 928 = $\_$	465	458	464	466
Half of 380 = $\_$	190	187	192	181
Half of 736 = $\_$	366	372	368	373
Half of 890 = $\_$	449	445	451	447
Half of 654 = $\_$	328	327	334	335
Half of 2918 = $\_$	1454	1455	1463	1459
Half of 1184 = $\_$	591	592	586	594
Half of 7168 = $\_$	3584	3583	3585	3590
Half of 9636 = $\_$	4826	4818	4812	4821
Half of 7204 = $\_$	3595	3602	3593	3600

### Section 13

Question Content	Option 1	Option 2	Option 3	Option 4
$30 \times 6 = \_$	188	175	180	185
$10 \times 9 = \_$	90	83	89	93
$30 \times 9 = \_$	278	272	270	263
$30 \times 5 = \_$	156	150	159	155
$25 \times 5 = \_$	122	125	118	121
$35 \times 3 = \_$	110	96	113	105
$35 \times 9 = \_$	322	319	311	315
$25 \times 8 = \_$	199	202	200	195
$40 \times 2 = \_$	81	80	71	79



$25 \times 9 = \underline{\quad}$	228	227	223	225
$11 \times 4 = \underline{\quad}$	46	38	44	40
$47 \times 3 = \underline{\quad}$	140	141	137	144
$24 \times 8 = \underline{\quad}$	198	195	192	194
$98 \times 9 = \underline{\quad}$	887	888	873	882
$77 \times 3 = \underline{\quad}$	226	224	237	231
$70 \times 8 = \underline{\quad}$	552	564	560	563
$73 \times 4 = \underline{\quad}$	286	284	296	292
$91 \times 7 = \underline{\quad}$	635	639	637	631
$88 \times 2 = \underline{\quad}$	171	176	178	168
$26 \times 7 = \underline{\quad}$	175	182	178	184
$13 \times \underline{\quad} = 78$	11	15	8	6
$79 \times \underline{\quad} = 237$	4	3	2	5
$94 \times \underline{\quad} = 658$	14	9	1	7
$77 \times \underline{\quad} = 308$	13	11	2	4
$33 \times \underline{\quad} = 264$	3	12	8	10
$86 \times \underline{\quad} = 430$	4	10	5	3
$21 \times \underline{\quad} = 63$	5	3	4	2
$64 \times \underline{\quad} = 384$	15	6	4	10
$61 \times \underline{\quad} = 427$	7	1	13	3
$40 \times \underline{\quad} = 200$	6	7	9	5

#### Section 14

Question Content	Option 1	Option 2	Option 3	Option 4
$54 + 30 = \underline{\quad}$	78	93	87	84
$99 + 72 = \underline{\quad}$	180	171	173	166
$87 + 38 = \underline{\quad}$	122	125	130	116
$58 + 89 = \underline{\quad}$	140	148	147	142
$32 + 57 = \underline{\quad}$	89	88	91	94
$77 - 77 = \underline{\quad}$	0	9	5	6
$40 - 38 = \underline{\quad}$	5	2	3	1
$49 - 16 = \underline{\quad}$	38	31	36	33
$56 - 16 = \underline{\quad}$	34	38	40	35
$84 - 57 = \underline{\quad}$	20	27	25	23



### Section 15

Question Content	Option 1	Option 2	Option 3	Option 4
Double of 54 + Triple of 6 = _	117	126	131	132
Double of 48 + Triple of 2 = _	105	111	102	108
Double of 29 + Triple of 3 = _	67	72	71	66
Double of 87 + Triple of 9 = _	202	197	201	194
Double of 49 + Triple of 5 = _	113	118	121	110
Double of 71 + Half of 50 = _	162	169	159	167
Double of 32 + Half of 68 = _	98	96	100	89
Double of 70 + Half of 26 = _	154	151	153	157
Double of 96 + Half of 68 = _	230	226	220	221
Double of 66 + Half of 64 = _	164	163	167	169

### Section 16

Question Content	Option 1	Option 2	Option 3	Option 4
17, 77, 56 Mean = _	52	48	50	49
44, 27, 85 Mean = _	49	44	52	43
61, 96, 92 Mean = _	77	85	83	90
43, 50, 96 Mean = _	60	55	63	71
32, 48, 22 Mean = _	41	33	29	34
31, 28, 55 Mean = _	40	39	38	44
99, 11, 34 Mean = _	42	48	46	39
11, 94, 60 Mean = _	52	51	53	55
11, 45, 34 Mean = _	36	29	32	30
68, 71, 23 Mean = _	47	60	45	54

### Section 17

Question Content	Option 1	Option 2	Option 3	Option 4
Cost price = 64, Selling Price = 111 Profit = _	51	47	39	45
Cost price = 90, Selling Price = 162 Profit = _	72	79	81	67
Cost price = 15, Selling Price = 5 Loss = _	1	16	10	7
Cost price = 22, Selling Price = 4 Loss = _	23	11	16	18
Cost price = 27, Selling Price = 47 Profit = _	25	19	20	18



Cost price = 38, Selling Price = 18 Loss = __	23	17	20	13
Cost price = 22, Selling Price = 8 Loss = __	13	14	7	8
Cost price = 82, Selling Price = 123 Profit = __	39	36	43	41
Cost price = 93, Selling Price = 58 Loss = __	28	26	44	35
Cost price = 67, Selling Price = 23 Loss = __	44	50	47	39

### Section 18

Question Content	Option 1	Option 2	Option 3	Option 4
Cost price = 605, Selling Price = 720 Profit = __	118	109	123	115
Cost price = 284, Selling Price = 176 Loss = __	108	102	116	113
Cost price = 199, Selling Price = 169 Loss = __	35	28	30	25
Cost price = 142, Selling Price = 44 Loss = __	101	98	100	95
Cost price = 326, Selling Price = 548 Profit = __	219	216	226	222

### Section 19

Question Content	Option 1	Option 2	Option 3	Option 4
Profit = 59, Selling Price = 193 Cost price = __	142	128	129	134
Loss = 618, Selling Price = 240 Cost price = __	858	863	851	849
Loss = 453, Selling Price = 370 Cost price = __	823	822	830	815
Loss = 121, Selling Price = 223 Cost price = __	336	339	352	344
Loss = 322, Selling Price = 119 Cost price = __	441	445	449	436



### Section 20

Question Content	Option 1	Option 2	Option 3	Option 4
$44 \div 2$ Quotient = _	20	24	21	22
$72 \div 9$ Quotient = _	10	6	8	9
$60 \div 3$ Quotient = _	26	13	28	20
$39 \div 3$ Quotient = _	6	4	7	13
$88 \div 8$ Quotient = _	14	6	11	8
$16 \div 2$ Quotient = _	4	11	8	16
$66 \div 6$ Quotient = _	5	11	9	6
$40 \div 8$ Quotient = _	13	12	11	5
$24 \div 6$ Quotient = _	7	10	4	6
$32 \div 8$ Quotient = _	3	2	12	4
$238 \div 2$ Quotient = _	111	121	119	112
$315 \div 9$ Quotient = _	35	29	43	37
$232 \div 8$ Quotient = _	29	26	27	34
$456 \div 3$ Quotient = _	159	157	161	152
$252 \div 3$ Quotient = _	82	84	77	81

### Section 21

Question Content	Option 1	Option 2	Option 3	Option 4
20% of 85 = _	25	20	17	11
25% of 76 = _	19	22	27	13
50% of 86 = _	39	43	34	50
25% of 96 = _	24	32	33	20
50% of 14 = _	5	6	15	7

### Section 22

Question Content	Option 1	Option 2	Option 3	Option 4
$2.52 \times 10 = \_$	34.2	21.2	23.2	25.2
$2.38 \times 10 = \_$	18.8	24.8	23.8	21.8
$2.96 \times 10 = \_$	29.6	25.6	27.6	31.6
$2.46 \times 10 = \_$	25.6	24.6	29.6	16.6
$7.17 \times 10 = \_$	67.7	69.7	79.7	71.7



### Section 23

Question Content	Option 1	Option 2	Option 3	Option 4
$576.53 \times 100 = \underline{\hspace{1cm}}$	57652	57657	57653	57646
$345.99 \times 100 = \underline{\hspace{1cm}}$	34599	34597	34598	34591
$617.17 \times 100 = \underline{\hspace{1cm}}$	61722	61717	61715	61719
$849.71 \times 100 = \underline{\hspace{1cm}}$	84971	84962	84978	84966
$276.33 \times 100 = \underline{\hspace{1cm}}$	27628	27633	27641	27631
$4.64 \times 100 = \underline{\hspace{1cm}}$	466	464	461	468
$5.94 \times 100 = \underline{\hspace{1cm}}$	594	601	596	599
$7.9 \times 100 = \underline{\hspace{1cm}}$	788	790	798	789
$7.18 \times 100 = \underline{\hspace{1cm}}$	712	716	713	718
$6.14 \times 100 = \underline{\hspace{1cm}}$	614	606	616	608
$2.24 \times 100 = \underline{\hspace{1cm}}$	224	227	223	221
$4.01 \times 100 = \underline{\hspace{1cm}}$	400	395	405	401
$9.86 \times 100 = \underline{\hspace{1cm}}$	995	988	986	989
$4.98 \times 100 = \underline{\hspace{1cm}}$	491	497	496	498
$3.05 \times 100 = \underline{\hspace{1cm}}$	307	305	308	311

### Section 24

Question Content	Option 1	Option 2	Option 3	Option 4
$\underline{\hspace{1cm}} \times 100 = 8300$	83	86	76	81
$\underline{\hspace{1cm}} \times 100 = 6000$	64	52	60	68
$\underline{\hspace{1cm}} \times 100 = 2300$	14	23	15	32
$\underline{\hspace{1cm}} \times 100 = 5400$	60	52	54	61
$\underline{\hspace{1cm}} \times 100 = 4100$	41	43	44	45

### Section 25

Question Content	Option 1	Option 2	Option 3	Option 4
$69^2 = \underline{\hspace{1cm}}$	4752	4767	4768	4761
$98^2 = \underline{\hspace{1cm}}$	9604	9606	9612	9603
$63^2 = \underline{\hspace{1cm}}$	3960	3969	3968	3972
$22^2 = \underline{\hspace{1cm}}$	477	484	479	489
$38^2 = \underline{\hspace{1cm}}$	1438	1446	1453	1444
$89^2 = \underline{\hspace{1cm}}$	7929	7913	7922	7921
$17^2 = \underline{\hspace{1cm}}$	285	289	287	292
$61^2 = \underline{\hspace{1cm}}$	3724	3721	3718	3730



$73^2 = \_$	5329	5320	5331	5323
$15^2 = \_$	225	219	223	227

### Section 26

Question Content	Option 1	Option 2	Option 3	Option 4
$4.75 + 8.3 = \_$	14.05	13.05	9.05	22.05
$8.16 + 5.953 = \_$	14.113	7.113	16.113	18.113
$8.39 + 8.671 = \_$	9.061	10.061	17.061	11.061
$2.58 + 4.162 = \_$	14.742	5.742	6.742	12.742
$1.9 + 3.915 = \_$	2.815	5.815	9.815	1.815

### Section 27

Question Content	Option 1	Option 2	Option 3	Option 4
$97 \times 32 = \_$	3108	3098	3104	3110
$87 \times 24 = \_$	2088	2084	2090	2086
$39 \times 89 = \_$	3469	3474	3475	3471
$48 \times 10 = \_$	487	480	482	481
$85 \times 24 = \_$	2042	2040	2047	2041
$50 \times 98 = \_$	4891	4892	4901	4900
$10 \times 72 = \_$	721	723	726	720
$82 \times 96 = \_$	7869	7875	7872	7881
$33 \times 93 = \_$	3069	3071	3068	3067
$36 \times 38 = \_$	1361	1375	1368	1362

### Section 28

Question Content	Option 1	Option 2	Option 3	Option 4
Half of 182 - Triple of 18 = $\_$	39	31	36	37
Half of 168 - Triple of 23 = $\_$	14	23	20	15
Half of 130 - Triple of 19 = $\_$	14	5	8	15
Half of 174 - Triple of 12 = $\_$	48	50	51	47
Half of 168 - Triple of 19 = $\_$	26	25	27	21
Half of 192 + Double of 83 = $\_$	262	254	264	255
Half of 192 + Double of 12 = $\_$	112	122	120	126
Half of 170 + Double of 65 = $\_$	213	215	209	210
Half of 134 + Double of 89 = $\_$	239	246	245	243



Half of 110 + Double of 44 = _	144	151	149	143
Double of 870 - Half of 338 = _	1567	1573	1571	1566
Double of 991 - Half of 282 = _	1833	1838	1841	1847
Double of 702 - Half of 212 = _	1300	1302	1298	1293
Double of 195 - Half of 66 = _	351	349	357	355
Double of 421 - Half of 200 = _	747	751	744	742
Half of 178 + Half of 192 = _	185	193	188	181
Half of 156 + Half of 152 = _	155	151	154	147
Half of 104 + Half of 104 = _	96	99	104	113
Half of 148 + Half of 138 = _	136	139	143	142
Half of 132 + Half of 172 = _	160	149	152	144