



# Global Mental Math Olympiad 2023

## Practice Sheet 1-Answer Key

### Master Category (Ages 9-11)

#### Section 1

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$7 + 3 + 6 = \_$	13	24	23	16
2	$7 + 8 + 8 = \_$	23	19	25	16
3	$9 + 2 + 6 = \_$	9	13	14	17
4	$9 + 7 + 9 = \_$	27	21	17	25
5	$4 + 8 + 3 = \_$	10	13	15	25
6	$7 + 6 - 4 = \_$	12	17	14	9
7	$5 + 4 - 3 = \_$	6	4	15	13
8	$9 + 7 - 4 = \_$	9	12	4	8
9	$8 + 5 - 3 = \_$	10	19	5	16
10	$5 + 1 - 1 = \_$	6	11	7	5

#### Section 2

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$51 + 9 = \_$	64	59	60	58
2	$99 + 3 = \_$	98	100	111	102
3	$52 + 7 = \_$	59	63	69	65
4	$63 + 1 = \_$	70	61	64	56
5	$14 + 7 = \_$	25	28	16	21
6	$79 - 6 = \_$	73	81	79	64
7	$60 - 5 = \_$	62	61	56	55
8	$44 - 4 = \_$	40	35	46	48
9	$46 - 3 = \_$	39	43	42	46
10	$10 - 9 = \_$	8	19	2	1



### Section 3

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Double of 2 + Half of 2 = _	3	5	4	1
2	Double of 1 + Half of 28 = _	16	21	10	9
3	Double of 9 + Half of 22 = _	34	31	29	22
4	Double of 5 + Half of 90 = _	65	45	55	56
5	Double of 1 + Half of 22 = _	20	14	13	4

### Section 4

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Half of 56 - Double of 2 = _	33	17	27	24
2	Half of 32 - Double of 2 = _	13	7	12	17
3	Half of 60 - Double of 2 = _	32	26	27	36
4	Half of 38 - Double of 6 = _	2	7	3	10
5	Half of 30 - Double of 4 = _	23	2	17	7

### Section 5

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$70 + 6 + 2 = \_$	84	81	79	78
2	$12 + 2 + 2 = \_$	6	21	26	16
3	$61 + 7 + 3 = \_$	71	78	70	68
4	$94 + 9 + 2 = \_$	109	115	105	104
5	$52 + 1 + 5 = \_$	49	58	57	60
6	$65 + 5 - 2 = \_$	69	70	68	74
7	$79 + 8 - 4 = \_$	86	83	80	74
8	$50 + 2 - 1 = \_$	57	42	43	51
9	$19 + 8 - 1 = \_$	20	32	30	26
10	$85 + 4 - 2 = \_$	82	84	87	93
11	$32 - 1 + 1 = \_$	31	32	25	27
12	$32 - 7 + 4 = \_$	23	25	19	29
13	$69 - 9 + 8 = \_$	68	60	58	76
14	$59 - 5 + 2 = \_$	59	66	65	56
15	$39 - 5 + 4 = \_$	39	38	34	48



### Section 6

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$92 \times 100 = \_$	9200	9210	9194	9190
2	$83 \times 100 = \_$	8300	8310	8291	8294
3	$45 \times 100 = \_$	4503	4500	4505	4491
4	$30 \times 100 = \_$	2996	2993	3004	3000
5	$95 \times 100 = \_$	9507	9501	9500	9506

### Section 7

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$78 \times 3 \times \_ = 0$	9	8	0	234
2	$82 \times 9 \times \_ = 0$	0	82	5	738
3	$61 \times 2 \times \_ = 0$	4	0	7	122
4	$25 \times 7 \times \_ = 0$	0	2	10	8
5	$56 \times 2 \times \_ = 0$	7	102	8	0
6	$96 \times 4 \times 0 = \_$	96	0	6	384
7	$62 \times 8 \times 0 = \_$	496	6	8	0
8	$22 \times 1 \times 0 = \_$	0	3	9	22
9	$78 \times 1 \times 0 = \_$	8	4	0	1
10	$28 \times 5 \times 0 = \_$	4	0	1	140

### Section 8

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$7^2 = \_$	42	58	44	49
2	$8^2 = \_$	54	61	64	60
3	$4^2 = \_$	9	20	16	7
4	$9^2 = \_$	81	85	78	86
5	$6^2 = \_$	32	36	38	42
6	$8^3 = \_$	507	512	510	513
7	$3^3 = \_$	21	27	24	33
8	$1^3 = \_$	1	2	6	4
9	$9^3 = \_$	738	723	729	732
10	$7^3 = \_$	353	340	343	338
11	$4^3 + 2^2 + 8^2 = \_$	131	136	132	129



12	$2^3 + 1^2 + 6^2 = \_$	40	45	52	43
13	$9^3 + 5^2 + 3^2 = \_$	763	758	772	756
14	$8^3 + 6^2 + 3^2 = \_$	563	549	550	557
15	$4^3 + 3^2 + 1^2 = \_$	83	65	74	66
16	$5^2 + 2^2 - 1^2 = \_$	31	35	24	28
17	$6^2 + 4^2 - 3^2 = \_$	41	40	46	43
18	$8^2 + 8^2 - 3^2 = \_$	115	116	119	109
19	$7^2 + 3^2 - 3^2 = \_$	46	43	49	52
20	$9^2 + 6^2 - 5^2 = \_$	90	92	82	94
21	$7^3 + 4^2 - 1^2 = \_$	368	362	354	358
22	$5^3 + 9^2 - 6^2 = \_$	168	170	162	173
23	$7^3 + 5^2 - 5^2 = \_$	343	349	335	338
24	$9^2 + 4^3 - 3^2 = \_$	145	127	136	132
25	$4^3 + 5^2 - 1^2 = \_$	95	91	84	88

### Section 9

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Double of 40 - Half of 20 = $\_$	70	74	71	65
2	Double of 62 - Half of 32 = $\_$	105	108	117	100
3	Double of 29 - Half of 12 = $\_$	52	57	48	61
4	Double of 88 - Half of 24 = $\_$	163	164	169	159
5	Double of 18 - Half of 6 = $\_$	33	23	39	40

### Section 10

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$(4 + 7) \times (9 + 7) = \_$	168	176	185	175
2	$(1 + 2) \times (1 + 7) = \_$	23	24	17	19
3	$(2 + 6) \times (9 + 9) = \_$	148	153	144	151
4	$(7 + 4) \times (4 + 1) = \_$	48	53	55	61
5	$(5 + 4) \times (7 + 7) = \_$	123	130	133	126



### Section 11

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Triple of 37 = _	101	111	114	113
2	Triple of 31 = _	86	94	93	84
3	Triple of 98 = _	302	287	284	294
4	Triple of 76 = _	230	229	228	235
5	Triple of 25 = _	80	75	78	83

### Section 12

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Half of 710 = _	353	355	351	349
2	Half of 406 = _	212	211	203	195
3	Half of 626 = _	313	305	318	319
4	Half of 818 = _	402	403	410	409
5	Half of 206 = _	110	113	103	99
6	Double of 30 + Triple of 1 = _	70	53	63	66
7	Double of 87 + Triple of 1 = _	180	173	177	176
8	Double of 37 + Triple of 4 = _	86	89	83	88
9	Double of 30 + Triple of 5 = _	74	75	84	78
10	Double of 66 + Triple of 5 = _	141	155	154	147
11	Double of 83 + Half of 50 = _	191	181	192	190
12	Double of 81 + Half of 56 = _	198	192	189	190
13	Double of 75 + Half of 86 = _	189	193	203	190
14	Double of 17 + Half of 84 = _	72	70	77	76
15	Double of 14 + Half of 50 = _	50	58	53	60

### Section 13

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$69 \times 10 = \_$	698	700	690	680
2	$88 \times 10 = \_$	881	883	880	874
3	$38 \times 10 = \_$	372	375	370	380
4	$24 \times 10 = \_$	240	236	248	241
5	$42 \times 10 = \_$	414	417	420	416
6	$46 \times 10 = \_$	460	463	453	469



7	$79 \times 10 = \_$	784	790	799	786
8	$21 \times 10 = \_$	209	210	204	216
9	$12 \times 10 = \_$	119	120	127	126
10	$78 \times 10 = \_$	776	780	787	782
11	$30 \times 4 = \_$	128	120	118	113
12	$10 \times 9 = \_$	90	87	94	92
13	$30 \times 2 = \_$	53	60	52	70
14	$15 \times 8 = \_$	116	120	117	123
15	$25 \times 8 = \_$	205	209	200	195
16	$45 \times 8 = \_$	367	361	353	360
17	$35 \times 5 = \_$	178	175	173	181
18	$30 \times 7 = \_$	218	202	220	210
19	$30 \times 5 = \_$	155	147	144	150
20	$45 \times 5 = \_$	222	225	232	234
21	$31 \times 4 = \_$	117	124	122	127
22	$79 \times 4 = \_$	314	316	321	313
23	$27 \times 3 = \_$	81	77	84	91
24	$40 \times 5 = \_$	207	202	200	210
25	$13 \times 7 = \_$	82	91	95	98
26	$53 \times 7 = \_$	371	373	374	380
27	$41 \times 9 = \_$	375	379	369	377
28	$43 \times 6 = \_$	265	250	258	252
29	$38 \times 8 = \_$	307	295	301	304
30	$94 \times 4 = \_$	367	385	382	376
31	$57 \times \_ = 399$	11	10	7	57
32	$70 \times \_ = 630$	11	9	15	3
33	$30 \times \_ = 180$	12	6	7	4
34	$40 \times \_ = 80$	2	8	6	3
35	$77 \times \_ = 231$	77	5	3	1
36	$41 \times \_ = 287$	13	1	10	7
37	$78 \times \_ = 702$	3	78	9	19
38	$98 \times \_ = 294$	98	3	1	4
39	$55 \times \_ = 110$	1	9	11	2
40	$91 \times \_ = 455$	4	11	9	5



### Section 14

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$39 + 11 = \_$	59	50	45	57
2	$88 + 91 = \_$	181	179	172	182
3	$55 + 97 = \_$	162	153	148	152
4	$16 + 98 = \_$	124	119	106	114
5	$86 + 47 = \_$	133	139	142	124
6	$61 - 44 = \_$	17	14	22	16
7	$94 - 17 = \_$	85	87	70	77
8	$54 - 13 = \_$	48	35	41	45
9	$83 - 76 = \_$	12	7	17	10
10	$92 - 78 = \_$	18	8	14	16

### Section 15

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Half of 7796 = $\_$	3898	3904	3889	3888
2	Half of 6620 = $\_$	3310	3312	3317	3304
3	Half of 3416 = $\_$	1717	1708	1710	1714
4	Half of 4660 = $\_$	2330	2335	2337	2333
5	Half of 2150 = $\_$	1078	1081	1075	1084

### Section 16

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	81, 82, 23 Mean = $\_$	65	52	55	62
2	22, 20, 27 Mean = $\_$	21	23	16	22
3	60, 95, 37 Mean = $\_$	65	56	64	73
4	33, 98, 19 Mean = $\_$	47	57	50	52
5	73, 76, 22 Mean = $\_$	49	59	57	55
6	63, 84, 84 Mean = $\_$	77	85	75	86
7	48, 96, 18 Mean = $\_$	58	61	46	54
8	95, 95, 56 Mean = $\_$	82	85	86	80
9	66, 28, 38 Mean = $\_$	40	35	44	39
10	87, 16, 17 Mean = $\_$	39	34	40	35



### Section 17

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Cost price = 74, Selling Price = 45 Loss = _	27	38	36	29
2	Cost price = 84, Selling Price = 134 Profit = _	50	56	43	57
3	Cost price = 46, Selling Price = 82 Profit = _	40	36	33	35
4	Cost price = 59, Selling Price = 90 Profit = _	28	31	21	41
5	Cost price = 65, Selling Price = 12 Loss = _	53	62	58	47
6	Cost price = 39, Selling Price = 64 Profit = _	30	34	25	29
7	Cost price = 81, Selling Price = 42 Loss = _	39	44	36	37
8	Cost price = 79, Selling Price = 118 Profit = _	39	31	49	30
9	Cost price = 19, Selling Price = 33 Profit = _	14	22	12	10
10	Cost price = 81, Selling Price = 133 Profit = _	52	44	48	43

### Section 18

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	72 / 4 Quotient = _	22	21	18	16
2	27 / 9 Quotient = _	5	6	10	3
3	54 / 9 Quotient = _	3	7	6	1
4	30 / 2 Quotient = _	5	6	15	11
5	20 / 5 Quotient = _	2	4	3	8
6	860 / 4 Quotient = _	223	224	218	215
7	556 / 4 Quotient = _	135	145	132	139
8	720 / 5 Quotient = _	147	149	144	139
9	216 / 9 Quotient = _	26	24	30	33
10	624 / 4 Quotient = _	152	156	149	160



### Section 19

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	25% of 32 = _	7	9	8	3
2	5% of 80 = _	4	9	10	40
3	50% of 46 = _	28	23	20	22
4	20% of 85 = _	27	22	17	9
5	50% of 22 = _	11	18	4	19
6	10% of 70 = _	7	6	12	9
7	25% of 36 = _	7	9	1	2
8	85% of 60 = _	58	56	55	51
9	25% of 92 = _	16	23	26	15
10	50% of 18 = _	9	5	19	4

### Section 20

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	237.05 x 100 = _	23709	23705	23715	23714
2	711.15 x 100 = _	71115	71108	71119	71121
3	783.9 x 100 = _	78390	78398	78397	78399
4	159.44 x 100 = _	15944	15940	15947	15942
5	125.25 x 100 = _	12526	12525	12535	12527
6	4.13 x 100 = _	411	408	413	419
7	9.89 x 100 = _	999	993	990	989
8	8.04 x 100 = _	814	813	804	811
9	4.2 x 100 = _	419	429	420	428
10	2.76 x 100 = _	276	275	283	278

### Section 21

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$32^2 = \_$	1022	1019	1017	1024
2	$22^2 = \_$	494	484	490	488
3	$96^2 = \_$	9220	9216	9223	9212
4	$35^2 = \_$	1227	1230	1225	1235
5	$41^2 = \_$	1675	1679	1676	1681



### Section 22

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$\_ \times 100 = 5500$	59	55	46	49
2	$\_ \times 100 = 8800$	88	78	87	84
3	$\_ \times 100 = 8300$	91	83	81	93
4	$\_ \times 100 = 5900$	64	54	59	55
5	$\_ \times 100 = 7500$	75	83	68	74

### Section 23

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$4.05 + 4.076 = \_$	15.126	14.126	16.126	8.126
2	$5.3 + 6.7 = \_$	12	17	16	19
3	$7.4 + 4.23 = \_$	12.63	11.63	17.63	20.63
4	$1.06 + 3.106 = \_$	5.166	10.166	8.166	4.166
5	$4.26 + 6.021 = \_$	14.281	12.281	10.281	17.281

### Section 24

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$8.41 \times 10 = \_$	84.1	86.1	89.1	87.1
2	$2.39 \times 10 = \_$	29.9	30.9	32.9	23.9
3	$5.29 \times 10 = \_$	56.9	52.9	60.9	61.9
4	$1.51 \times 10 = \_$	23.1	15.1	17.1	18.1
5	$8.61 \times 10 = \_$	91.1	88.1	92.1	86.1