



Global Mental Math Olympiad 2023

Practice Sheet 3-Answer Key

Master Category (Ages 9-11)

Section 1

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$2 + 4 + 7 = _$	5	13	3	15
2	$6 + 6 + 2 = _$	14	17	13	11
3	$5 + 8 + 8 = _$	21	11	23	14
4	$7 + 3 + 1 = _$	15	16	11	17
5	$6 + 7 + 8 = _$	21	28	26	30
6	$9 + 9 - 6 = _$	17	7	12	11
7	$6 + 6 - 1 = _$	9	11	8	18
8	$9 + 3 - 1 = _$	4	19	11	14
9	$9 + 5 - 5 = _$	9	13	10	7
10	$7 + 4 - 2 = _$	9	2	17	5

Section 2

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$62 + 5 = _$	66	71	62	67
2	$38 + 3 = _$	46	41	43	34
3	$37 + 2 = _$	40	39	42	46
4	$56 + 6 = _$	64	63	72	62
5	$83 + 4 = _$	91	82	87	88
6	$23 - 8 = _$	22	8	13	15
7	$28 - 3 = _$	25	24	19	30
8	$11 - 3 = _$	4	12	8	3
9	$74 - 5 = _$	64	75	69	71
10	$88 - 5 = _$	83	73	85	87



Section 3

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Double of 4 + Half of 50 = _	33	39	32	26
2	Double of 1 + Half of 52 = _	27	28	19	35
3	Double of 9 + Half of 30 = _	32	34	39	33
4	Double of 6 + Half of 34 = _	38	25	29	27
5	Double of 8 + Half of 80 = _	63	65	61	56

Section 4

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Half of 58 - Double of 9 = _	11	9	4	6
2	Half of 58 - Double of 3 = _	23	16	17	24
3	Half of 36 - Double of 2 = _	18	14	20	24
4	Half of 86 - Double of 4 = _	28	35	25	41
5	Half of 28 - Double of 1 = _	12	16	11	10

Section 5

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$35 + 8 + 3 = _$	49	36	46	55
2	$91 + 7 + 1 = _$	99	108	105	102
3	$69 + 9 + 1 = _$	73	87	70	79
4	$79 + 5 + 9 = _$	87	99	93	91
5	$59 + 1 + 9 = _$	69	75	72	64
6	$21 + 9 - 7 = _$	31	18	23	27
7	$62 + 5 - 1 = _$	65	66	59	57
8	$92 + 8 - 2 = _$	106	93	98	91
9	$84 + 3 - 2 = _$	81	78	85	80
10	$55 + 8 - 7 = _$	61	60	55	56
11	$52 - 8 + 5 = _$	59	49	40	46
12	$73 - 4 + 1 = _$	64	65	61	70
13	$70 - 9 + 6 = _$	63	67	65	59
14	$48 - 9 + 3 = _$	45	42	47	36
15	$35 - 6 + 2 = _$	31	40	35	21



Section 6

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$78 \times 100 = _$	7808	7799	7792	7800
2	$21 \times 100 = _$	2097	2100	2106	2110
3	$22 \times 100 = _$	2195	2191	2200	2209
4	$83 \times 100 = _$	8300	8307	8298	8293
5	$33 \times 100 = _$	3298	3300	3303	3310

Section 7

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$25 \times 3 \times _ = 0$	75	1	0	3
2	$37 \times 4 \times _ = 0$	0	8	148	10
3	$59 \times 2 \times _ = 0$	108	7	0	9
4	$41 \times 2 \times _ = 0$	7	42	3	0
5	$99 \times 4 \times _ = 0$	0	396	99	2
6	$32 \times 2 \times 0 = _$	8	62	0	5
7	$67 \times 4 \times 0 = _$	0	1	2	6
8	$19 \times 8 \times 0 = _$	5	4	0	2
9	$38 \times 7 \times 0 = _$	3	0	266	10
10	$60 \times 8 \times 0 = _$	4	480	60	0

Section 8

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$4^2 = _$	12	16	8	6
2	$7^2 = _$	56	55	49	53
3	$8^2 = _$	64	58	70	55
4	$6^2 = _$	38	44	36	28
5	$6^3 = _$	222	225	216	213
6	$2^3 = _$	16	18	6	8
7	$9^3 = _$	723	727	729	725
8	$7^3 = _$	338	343	348	333
9	$4^3 = _$	64	72	65	55
10	$3^3 + 7^2 + 2^2 = _$	74	86	87	80
11	$2^3 + 1^2 + 7^2 = _$	50	62	58	63
12	$3^3 + 5^2 + 5^2 = _$	81	77	83	71
13	$8^3 + 4^2 + 5^2 = _$	553	545	549	548



14	$3^3 + 8^2 + 1^2 = \underline{\quad}$	88	92	97	90
15	$8^2 + 7^2 - 5^2 = \underline{\quad}$	88	91	89	78
16	$8^2 + 6^2 - 5^2 = \underline{\quad}$	66	75	85	78
17	$9^2 + 6^2 - 1^2 = \underline{\quad}$	116	106	113	109
18	$6^2 + 5^2 - 5^2 = \underline{\quad}$	39	31	36	28
19	$6^2 + 6^2 - 3^2 = \underline{\quad}$	57	61	53	63
20	$6^3 + 8^2 - 3^2 = \underline{\quad}$	271	277	268	280
21	$5^3 + 6^2 - 1^2 = \underline{\quad}$	156	160	162	152
22	$7^2 + 3^3 - 5^2 = \underline{\quad}$	50	59	51	45
23	$9^2 + 3^3 - 4^2 = \underline{\quad}$	87	84	92	93
24	$6^2 + 3^3 - 2^2 = \underline{\quad}$	60	59	52	53

Section 9

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Double of 95 - Half of 48 = $\underline{\quad}$	162	175	159	166
2	Double of 53 - Half of 24 = $\underline{\quad}$	94	89	103	100
3	Double of 60 - Half of 20 = $\underline{\quad}$	108	105	120	110
4	Double of 48 - Half of 24 = $\underline{\quad}$	80	84	90	94
5	Double of 52 - Half of 20 = $\underline{\quad}$	98	104	96	94

Section 10

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$(7 + 9) \times (4 + 4) = \underline{\quad}$	121	128	126	120
2	$(3 + 2) \times (9 + 8) = \underline{\quad}$	82	87	89	85
3	$(3 + 1) \times (1 + 2) = \underline{\quad}$	19	12	13	8
4	$(4 + 8) \times (8 + 9) = \underline{\quad}$	198	204	209	212
5	$(8 + 8) \times (8 + 3) = \underline{\quad}$	175	186	174	176

Section 11

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Triple of 45 = $\underline{\quad}$	139	133	125	135
2	Triple of 13 = $\underline{\quad}$	44	41	39	46
3	Triple of 80 = $\underline{\quad}$	241	242	243	240
4	Triple of 25 = $\underline{\quad}$	69	71	75	77
5	Triple of 34 = $\underline{\quad}$	110	112	111	102



Section 12

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Half of 398 = _	190	199	207	208
2	Half of 252 = _	131	126	123	136
3	Half of 590 = _	293	305	301	295
4	Half of 734 = _	362	365	367	371
5	Half of 474 = _	237	240	234	239
6	Double of 15 + Triple of 6 = _	38	58	51	48
7	Double of 32 + Triple of 7 = _	88	85	77	87
8	Double of 15 + Triple of 8 = _	49	44	61	54
9	Double of 56 + Triple of 3 = _	114	121	120	123
10	Double of 14 + Triple of 8 = _	50	52	56	44
11	Double of 11 + Half of 28 = _	36	34	30	35
12	Double of 76 + Half of 32 = _	161	169	168	177
13	Double of 29 + Half of 70 = _	92	93	100	103
14	Double of 72 + Half of 28 = _	158	167	150	153
15	Double of 83 + Half of 88 = _	210	216	201	217

Section 13

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	59 x 10 = _	587	582	595	590
2	82 x 10 = _	810	819	820	813
3	90 x 10 = _	896	900	903	902
4	36 x 10 = _	361	360	352	365
5	73 x 10 = _	729	730	722	739
6	30 x 10 = _	300	310	308	304
7	97 x 10 = _	970	977	978	971
8	70 x 10 = _	703	700	710	698
9	94 x 10 = _	939	940	930	943
10	19 x 10 = _	196	194	190	184
11	25 x 4 = _	96	104	100	101
12	30 x 9 = _	278	275	268	270
13	40 x 9 = _	354	364	360	369
14	35 x 6 = _	201	206	217	210
15	15 x 8 = _	120	124	128	110
16	45 x 4 = _	180	179	178	174

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17	$15 \times 4 = _$	64	69	60	52
18	$15 \times 3 = _$	53	38	44	45
19	$40 \times 8 = _$	320	330	313	325
20	$80 \times 6 = _$	480	472	482	490
21	$56 \times 7 = _$	392	393	400	394
22	$68 \times 2 = _$	136	139	146	140
23	$94 \times 5 = _$	470	467	479	474
24	$32 \times 4 = _$	137	123	138	128
25	$83 \times 2 = _$	169	166	157	156
26	$45 \times 7 = _$	305	320	316	315
27	$63 \times 9 = _$	564	571	559	567
28	$18 \times 2 = _$	28	36	42	34
29	$40 \times 2 = _$	73	76	89	80
30	$31 \times _ = 217$	1	8	11	7
31	$81 \times _ = 405$	15	5	0	9
32	$97 \times _ = 194$	2	12	97	4
33	$24 \times _ = 120$	7	3	5	10
34	$34 \times _ = 170$	14	5	8	1
35	$26 \times _ = 234$	9	10	4	15
36	$26 \times _ = 78$	3	4	6	13
37	$59 \times _ = 531$	9	19	8	7
38	$66 \times _ = 330$	1	10	14	5
39	$45 \times _ = 405$	18	9	11	14

Section 14

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$88 + 32 = _$	127	122	120	128
2	$33 + 65 = _$	106	95	98	103
3	$79 + 25 = _$	114	104	94	109
4	$75 + 30 = _$	105	106	114	104
5	$32 + 16 = _$	51	46	48	43
6	$93 - 72 = _$	26	11	25	21
7	$95 - 43 = _$	52	42	56	45
8	$73 - 54 = _$	13	20	19	24
9	$61 - 21 = _$	45	46	31	40
10	$68 - 19 = _$	56	49	46	57



Section 15

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Half of 2746 = _	1375	1373	1370	1383
2	Half of 4060 = _	2038	2034	2040	2030
3	Half of 4124 = _	2062	2068	2055	2058
4	Half of 7188 = _	3594	3588	3591	3590
5	Half of 4472 = _	2237	2231	2236	2238

Section 16

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	14, 79, 42 Mean = _	42	53	45	49
2	96, 11, 76 Mean = _	57	62	58	61
3	39, 82, 32 Mean = _	51	50	47	58
4	18, 84, 30 Mean = _	35	54	45	44
5	12, 36, 33 Mean = _	27	34	37	33
6	74, 47, 98 Mean = _	82	80	64	73
7	44, 86, 11 Mean = _	57	48	47	46
8	51, 21, 48 Mean = _	49	40	36	47
9	36, 66, 42 Mean = _	42	52	48	55
10	52, 31, 73 Mean = _	52	47	42	58

Section 17

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	Cost price = 26, Selling Price = 46 Profit = _	27	15	22	20
2	Cost price = 52, Selling Price = 16 Loss = _	46	36	35	31
3	Cost price = 92, Selling Price = 41 Loss = _	49	60	51	59
4	Cost price = 28, Selling Price = 46 Profit = _	23	8	19	18
5	Cost price = 88, Selling Price = 38 Loss = _	48	50	57	58
6	Cost price = 59, Selling Price = 21 Loss = _	38	36	41	35
7	Cost price = 90, Selling Price = 141 Profit = _	55	51	60	48



8	Cost price = 57, Selling Price = 79 Profit = _	21	19	14	22
9	Cost price = 17, Selling Price = 23 Profit = _	16	4	3	6
10	Cost price = 78, Selling Price = 142 Profit = _	65	69	64	62

Section 18

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	96 / 3 Quotient = _	32	29	41	33
2	36 / 9 Quotient = _	1	3	0	4
3	50 / 5 Quotient = _	10	8	20	2
4	21 / 3 Quotient = _	4	8	7	2
5	95 / 5 Quotient = _	17	21	25	19
6	840 / 7 Quotient = _	112	115	120	119
7	528 / 4 Quotient = _	137	122	132	136
8	974 / 2 Quotient = _	497	489	487	479
9	204 / 4 Quotient = _	51	60	61	56
10	351 / 9 Quotient = _	47	40	39	42

Section 19

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	50% of 62 = _	31	27	22	37
2	25% of 56 = _	18	9	13	14
3	25% of 32 = _	14	8	7	0
4	50% of 66 = _	32	25	35	33
5	50% of 86 = _	49	37	42	43
6	50% of 38 = _	14	20	19	18
7	50% of 26 = _	9	12	18	13
8	20% of 55 = _	10	21	18	11
9	50% of 94 = _	49	53	57	47
10	8% of 75 = _	10	6	11	5
11	50% of 18 = _	10	9	3	15
12	25% of 96 = _	29	25	21	24



Section 20

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$1.65 \times 10 = _$	16.5	23.5	17.5	18.5
2	$5.42 \times 10 = _$	61.2	58.2	55.2	54.2
3	$1.34 \times 10 = _$	20.4	13.4	18.4	15.4
4	$6.12 \times 10 = _$	69.2	63.2	61.2	64.2
5	$8.4 \times 10 = _$	86	85	84	91
6	$906.86 \times 100 = _$	90687	90692	90686	90694
7	$812.61 \times 100 = _$	81259	81268	81258	81261
8	$746.85 \times 100 = _$	74681	74678	74680	74685
9	$884.67 \times 100 = _$	88460	88458	88471	88467
10	$105.05 \times 100 = _$	10497	10505	10496	10508
11	$6.62 \times 100 = _$	662	653	661	655
12	$3.05 \times 100 = _$	303	305	297	302
13	$2.84 \times 100 = _$	293	282	276	284
14	$9.89 \times 100 = _$	999	998	979	989
15	$5.71 \times 100 = _$	564	563	575	571

Section 21

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$41^2 = _$	1675	1673	1681	1676
2	$58^2 = _$	3361	3364	3369	3367
3	$19^2 = _$	361	355	357	365
4	$89^2 = _$	7923	7927	7919	7921
5	$85^2 = _$	7230	7225	7217	7215

Section 22

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$_ \times 100 = 9300$	101	97	100	93
2	$_ \times 100 = 2500$	22	20	25	32
3	$_ \times 100 = 3100$	21	24	36	31
4	$_ \times 100 = 5300$	51	62	63	53
5	$_ \times 100 = 8700$	93	88	78	87



Section 23

Sr.no	Question Content	Option 1	Option 2	Option 3	Option 4
1	$5.9 + 8.245 = \underline{\quad}$	14.145	17.145	19.145	15.145
2	$6.33 + 2.452 = \underline{\quad}$	15.782	8.782	14.782	12.782
3	$1.33 + 1.645 = \underline{\quad}$	4.975	8.975	9.975	2.975
4	$7.69 + 5.675 = \underline{\quad}$	13.365	17.365	22.365	20.365
5	$9.99 + 5.163 = \underline{\quad}$	22.153	16.153	23.153	15.153