



## **Global Mental Math Olympiad 2023**

### **Practice Sheet 1-Answer Key**

#### **Zen Master Category**

##### **Section 1**

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$2 + 4 + 7 = \_$	14	15	13	9
2	$6 + 6 + 2 = \_$	20	14	4	19
3	$5 + 8 + 8 = \_$	25	11	19	21
4	$7 + 3 + 1 = \_$	17	8	21	11
5	$6 + 7 + 8 = \_$	12	30	18	21
6	$9 + 9 - 6 = \_$	18	3	12	14
7	$6 + 6 - 1 = \_$	7	11	14	6
8	$9 + 3 - 1 = \_$	18	11	13	21
9	$9 + 5 - 5 = \_$	3	13	19	9
10	$7 + 4 - 2 = \_$	9	10	1	19

##### **Section 2**

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$62 + 5 = \_$	57	69	67	59
2	$38 + 3 = \_$	41	47	36	31
3	$37 + 2 = \_$	37	39	35	48
4	$56 + 6 = \_$	60	57	55	62
5	$83 + 4 = \_$	87	90	85	91
6	$23 - 8 = \_$	18	15	9	8
7	$28 - 3 = \_$	16	24	25	34
8	$11 - 3 = \_$	14	8	5	4
9	$74 - 5 = \_$	72	67	61	69
10	$88 - 5 = \_$	87	92	83	90



### Section 3

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	Double of 4 + Half of 50 = _	33	34	42	32
2	Double of 1 + Half of 52 = _	27	25	28	26
3	Double of 9 + Half of 30 = _	24	33	28	43
4	Double of 6 + Half of 34 = _	29	27	26	22
5	Double of 8 + Half of 80 = _	51	56	59	57

### Section 4

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	Half of 58 - Double of 9 = _	11	20	14	9
2	Half of 58 - Double of 3 = _	23	29	22	28
3	Half of 36 - Double of 2 = _	21	4	14	8
4	Half of 86 - Double of 4 = _	35	27	31	25
5	Half of 28 - Double of 1 = _	15	13	12	19

### Section 5

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$35 + 8 + 3 = \_$	46	40	50	45
2	$91 + 7 + 1 = \_$	92	99	103	108
3	$69 + 9 + 1 = \_$	70	84	79	77
4	$79 + 5 + 9 = \_$	87	93	89	85
5	$59 + 1 + 9 = \_$	62	78	69	61
6	$21 + 9 - 7 = \_$	18	23	31	28
7	$62 + 5 - 1 = \_$	70	66	61	57
8	$92 + 8 - 2 = \_$	98	94	104	92
9	$84 + 3 - 2 = \_$	80	85	82	75
10	$55 + 8 - 7 = \_$	50	56	64	58
11	$52 - 8 + 5 = \_$	58	45	50	49
12	$73 - 4 + 1 = \_$	70	73	68	80
13	$70 - 9 + 6 = \_$	67	76	70	64
14	$48 - 9 + 3 = \_$	42	36	52	34
15	$35 - 6 + 2 = \_$	31	28	32	40



### Section 6

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$78 \times 100 = \underline{\quad}$	7798	7807	7800	7804
2	$21 \times 100 = \underline{\quad}$	2110	2097	2100	2098
3	$22 \times 100 = \underline{\quad}$	2193	2198	2200	2201
4	$83 \times 100 = \underline{\quad}$	8301	8298	8294	8300
5	$33 \times 100 = \underline{\quad}$	3304	3308	3300	3297

### Section 7

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$25 \times 3 \times \underline{\quad} = 0$	25	0	3	75
2	$37 \times 4 \times \underline{\quad} = 0$	0	2	148	8
3	$59 \times 2 \times \underline{\quad} = 0$	59	0	2	108
4	$41 \times 2 \times \underline{\quad} = 0$	6	41	0	82
5	$99 \times 4 \times \underline{\quad} = 0$	99	6	4	0
6	$32 \times 2 \times 0 = \underline{\quad}$	32	0	64	2
7	$67 \times 4 \times 0 = \underline{\quad}$	1	67	0	268
8	$19 \times 8 \times 0 = \underline{\quad}$	5	152	0	8
9	$38 \times 7 \times 0 = \underline{\quad}$	38	3	0	4
10	$60 \times 8 \times 0 = \underline{\quad}$	0	480	60	8



### Section 8

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$4^2 = \_$	22	20	14	16
2	$7^2 = \_$	44	46	49	48
3	$8^2 = \_$	56	67	61	64
4	$6^2 = \_$	36	29	27	35
5	$6^3 = \_$	217	226	210	216
6	$2^3 = \_$	6	8	3	0
7	$9^3 = \_$	739	730	729	738
8	$7^3 = \_$	342	347	343	334
9	$4^3 = \_$	68	57	58	64
10	$3^3 + 7^2 + 2^2 = \_$	86	80	71	85
11	$2^3 + 1^2 + 7^2 = \_$	54	68	64	58
12	$3^3 + 5^2 + 5^2 = \_$	86	85	77	75
13	$8^3 + 4^2 + 5^2 = \_$	553	563	559	557
14	$3^3 + 8^2 + 1^2 = \_$	82	92	85	90
15	$8^2 + 7^2 - 5^2 = \_$	88	83	91	95
16	$8^2 + 6^2 - 5^2 = \_$	68	75	83	72
17	$9^2 + 6^2 - 1^2 = \_$	122	116	110	115
18	$6^2 + 5^2 - 5^2 = \_$	36	44	38	33
19	$6^2 + 6^2 - 3^2 = \_$	71	63	65	72
20	$6^3 + 8^2 - 3^2 = \_$	267	279	271	266
21	$5^3 + 6^2 - 1^2 = \_$	153	160	157	150
22	$7^2 + 3^3 - 5^2 = \_$	58	46	51	55
23	$9^2 + 3^3 - 4^2 = \_$	99	92	97	91
24	$6^2 + 3^3 - 2^2 = \_$	59	57	56	63

### Section 9

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	Double of 95 - Half of 48 = $\_$	172	166	159	168
2	Double of 53 - Half of 24 = $\_$	89	103	86	94
3	Double of 60 - Half of 20 = $\_$	113	112	118	110
4	Double of 48 - Half of 24 = $\_$	79	92	84	75
5	Double of 52 - Half of 20 = $\_$	99	94	89	91



### Section 10

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$(7 + 9) \times (4 + 4) = \_$	129	128	123	130
2	$(3 + 2) \times (9 + 8) = \_$	85	76	93	77
3	$(3 + 1) \times (1 + 2) = \_$	20	6	12	21
4	$(4 + 8) \times (8 + 9) = \_$	203	210	211	204
5	$(8 + 8) \times (8 + 3) = \_$	170	176	172	174

### Section 11

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	Triple of 45 = $\_$	135	138	127	129
2	Triple of 13 = $\_$	32	49	39	38
3	Triple of 80 = $\_$	240	238	236	245
4	Triple of 25 = $\_$	82	68	67	75
5	Triple of 34 = $\_$	102	95	99	112

### Section 12

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	Half of 398 = $\_$	201	204	192	199
2	Half of 252 = $\_$	116	126	133	132
3	Half of 590 = $\_$	291	294	296	295
4	Half of 734 = $\_$	368	361	364	367
5	Half of 474 = $\_$	234	238	237	235
6	Double of 15 + Triple of 6 = $\_$	39	49	48	42
7	Double of 32 + Triple of 7 = $\_$	94	95	92	85
8	Double of 15 + Triple of 8 = $\_$	60	54	64	49
9	Double of 56 + Triple of 3 = $\_$	121	125	111	118
10	Double of 14 + Triple of 8 = $\_$	44	48	52	50
11	Double of 11 + Half of 28 = $\_$	32	42	36	33
12	Double of 76 + Half of 32 = $\_$	175	168	166	173
13	Double of 29 + Half of 70 = $\_$	91	102	93	96
14	Double of 72 + Half of 28 = $\_$	152	160	158	163
15	Double of 83 + Half of 88 = $\_$	218	210	205	214



### Section 13

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$59 \times 10 = \underline{\quad}$	585	587	580	590
2	$82 \times 10 = \underline{\quad}$	830	820	825	822
3	$90 \times 10 = \underline{\quad}$	895	906	900	908
4	$36 \times 10 = \underline{\quad}$	360	361	358	351
5	$73 \times 10 = \underline{\quad}$	734	730	728	739
6	$30 \times 10 = \underline{\quad}$	302	301	291	300
7	$97 \times 10 = \underline{\quad}$	970	965	960	963
8	$70 \times 10 = \underline{\quad}$	701	700	706	690
9	$94 \times 10 = \underline{\quad}$	931	940	936	942
10	$19 \times 10 = \underline{\quad}$	192	186	190	199
11	$25 \times 4 = \underline{\quad}$	102	99	105	100
12	$30 \times 9 = \underline{\quad}$	270	261	265	275
13	$40 \times 9 = \underline{\quad}$	357	364	366	360
14	$35 \times 6 = \underline{\quad}$	210	216	204	212
15	$15 \times 8 = \underline{\quad}$	129	123	110	120
16	$45 \times 4 = \underline{\quad}$	190	170	180	171
17	$15 \times 4 = \underline{\quad}$	62	60	66	50
18	$15 \times 3 = \underline{\quad}$	45	46	41	43
19	$40 \times 8 = \underline{\quad}$	325	319	320	316
20	$80 \times 6 = \underline{\quad}$	480	478	482	486
21	$56 \times 7 = \underline{\quad}$	395	398	392	390
22	$68 \times 2 = \underline{\quad}$	141	140	130	136
23	$94 \times 5 = \underline{\quad}$	461	465	479	470
24	$32 \times 4 = \underline{\quad}$	122	121	137	128
25	$83 \times 2 = \underline{\quad}$	161	166	171	169
26	$45 \times 7 = \underline{\quad}$	320	311	322	315
27	$63 \times 9 = \underline{\quad}$	575	561	567	564
28	$18 \times 2 = \underline{\quad}$	33	30	36	38
29	$40 \times 2 = \underline{\quad}$	72	71	80	83
30	$31 \times \underline{\quad} = 217$	10	5	0	7
31	$81 \times \underline{\quad} = 405$	15	5	11	2
32	$97 \times \underline{\quad} = 194$	3	2	6	4
33	$24 \times \underline{\quad} = 120$	13	2	5	15
34	$34 \times \underline{\quad} = 170$	11	5	2	3
35	$26 \times \underline{\quad} = 234$	8	14	9	2
36	$26 \times \underline{\quad} = 78$	8	3	13	7
37	$59 \times \underline{\quad} = 531$	5	16	9	15
38	$66 \times \underline{\quad} = 330$	5	1	6	4
39	$45 \times \underline{\quad} = 405$	15	5	9	1



### Section 14

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$88 + 32 = \_$	125	120	123	130
2	$33 + 65 = \_$	99	100	91	98
3	$79 + 25 = \_$	100	106	110	104
4	$75 + 30 = \_$	109	110	105	100
5	$32 + 16 = \_$	49	43	48	46
6	$93 - 72 = \_$	31	21	23	20
7	$95 - 43 = \_$	52	49	44	55
8	$73 - 54 = \_$	19	13	16	11
9	$61 - 21 = \_$	44	39	40	38
10	$68 - 19 = \_$	53	49	43	39

### Section 15

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	Half of 2746 = $\_$	1363	1372	1378	1373
2	Half of 4060 = $\_$	2037	2024	2029	2030
3	Half of 4124 = $\_$	2069	2060	2061	2062
4	Half of 7188 = $\_$	3589	3594	3600	3595
5	Half of 4472 = $\_$	2239	2227	2236	2240

### Section 16

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	14, 79, 42 Mean = $\_$	36	45	40	55
2	96, 11, 76 Mean = $\_$	64	61	58	57
3	39, 82, 32 Mean = $\_$	51	45	49	53
4	18, 84, 30 Mean = $\_$	44	48	46	35
5	12, 36, 33 Mean = $\_$	27	20	22	25
6	74, 47, 98 Mean = $\_$	69	80	73	81
7	44, 86, 11 Mean = $\_$	45	37	47	42
8	51, 21, 48 Mean = $\_$	40	43	50	36
9	36, 66, 42 Mean = $\_$	48	56	40	49
10	52, 31, 73 Mean = $\_$	54	56	52	59



### Section 17

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	Cost price = 26, Selling Price = 46 Profit = __	20	18	27	15
2	Cost price = 52, Selling Price = 16 Loss = __	34	43	36	35
3	Cost price = 92, Selling Price = 41 Loss = __	45	56	59	51
4	Cost price = 28, Selling Price = 46 Profit = __	18	28	26	21
5	Cost price = 88, Selling Price = 38 Loss = __	43	50	53	52
6	Cost price = 59, Selling Price = 21 Loss = __	35	29	37	38
7	Cost price = 90, Selling Price = 141 Profit = __	61	51	41	54
8	Cost price = 57, Selling Price = 79 Profit = __	23	12	22	27
9	Cost price = 17, Selling Price = 23 Profit = __	16	6	2	3
10	Cost price = 78, Selling Price = 142 Profit = __	61	64	58	66

### Section 18

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	96 / 3 Quotient = __	27	34	32	42
2	36 / 9 Quotient = __	6	11	10	4
3	50 / 5 Quotient = __	13	10	2	20
4	21 / 3 Quotient = __	7	9	11	5
5	95 / 5 Quotient = __	24	25	19	18
6	840 / 7 Quotient = __	120	122	111	118
7	528 / 4 Quotient = __	132	125	128	142
8	974 / 2 Quotient = __	482	485	487	486
9	204 / 4 Quotient = __	51	50	60	46
10	351 / 9 Quotient = __	39	36	37	34





### Section 19

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	50% of 62 = _	31	34	28	32
2	25% of 56 = _	12	16	11	14
3	25% of 32 = _	8	0	1	13
4	50% of 66 = _	25	33	23	37
5	50% of 86 = _	49	53	44	43
6	50% of 38 = _	19	22	15	14
7	50% of 26 = _	11	7	13	21
8	20% of 55 = _	11	9	13	12
9	50% of 94 = _	39	43	47	37
10	8% of 75 = _	15	2	0	6
11	50% of 18 = _	2	7	6	9
12	25% of 96 = _	34	24	26	25

### Section 20

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$1.65 \times 10 = \_$	16.5	25	7	23
2	$5.42 \times 10 = \_$	49	63	54.2	54
3	$1.34 \times 10 = \_$	11	8	13.4	16
4	$6.12 \times 10 = \_$	60	64	61.2	67
5	$8.4 \times 10 = \_$	84	77	76	75
6	$906.86 \times 100 = \_$	90696	90680	90686	90683
7	$812.61 \times 100 = \_$	81255	81268	81252	81261
8	$746.85 \times 100 = \_$	74685	74695	74692	74680
9	$884.67 \times 100 = \_$	88470	88477	88467	88465
10	$105.05 \times 100 = \_$	10505	10513	10498	10500
11	$6.62 \times 100 = \_$	659	663	662	671
12	$3.05 \times 100 = \_$	315	311	305	303
13	$2.84 \times 100 = \_$	286	283	274	284
14	$9.89 \times 100 = \_$	989	986	987	992
15	$5.71 \times 100 = \_$	571	570	564	581



### Section 21

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$41^2 = \_$	1672	1681	1687	1685
2	$58^2 = \_$	3370	3364	3372	3374
3	$19^2 = \_$	360	361	370	369
4	$89^2 = \_$	7919	7928	7921	7926
5	$85^2 = \_$	7218	7231	7228	7225

### Section 22

S.No	Question Content	Option 1	Option 2	Option 3	Option 4
1	$\_ \times 100 = 9300$	100	99	92	93
2	$\_ \times 100 = 2500$	26	18	25	21
3	$\_ \times 100 = 3100$	39	31	29	41
4	$\_ \times 100 = 5300$	63	52	53	59
5	$\_ \times 100 = 8700$	78	87	95	89

### Section 23

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