



## Global Mental Math Olympiad 2024

### Question Bank 1-Answer Key

#### Grandmaster Challenge (Ages 12 & above)

Sr no	Question Content	Option 1	Option 2	Option 3	Option 4
1	34, 40, 55 Mean = _	49	52	47	43
2	68, 26, 89 Mean = _	61	52	67	63
3	$8^2 =$ _	61	65	64	67
4	30, 12, 25, 30, 18 Mean = _	17	23	29	25
5	93, 74, 36, 41, 11 Mean = _	57	56	42	51
6	$20^2 =$ _	392	399	400	402
7	$11^2 =$ _	113	123	121	119
8	Half of 8162 = _	4079	4080	4075	4081
9	Half of 9444 = _	4731	4718	4723	4722
10	Half of 5012 = _	2515	2498	2505	2506
11	Double of 71 + Half of 48 = _	167	166	174	168
12	Double of 96 + Half of 84 = _	237	242	239	234
13	Double of 17 + Half of 74 = _	71	74	73	76
14	$71 \times$ _ = 142	2	6	8	3
15	$72 \times$ _ = 648	9	12	10	11
16	$37 \times$ _ = 74	2	3	11	7
17	Cost price = 664, Selling Price = 285 Loss = _	379	384	382	383
18	Cost price = 410, Selling Price = 164 Loss = _	245	249	253	246
19	$18 + 9 - 7 =$ _	25	20	24	21
20	$93 + 7 - 4 =$ _	96	97	105	98
21	$90 + 8 - 7 =$ _	97	91	95	100
22	$68 + 7 - 7 =$ _	69	72	73	68
23	$49 + 6 - 4 =$ _	51	58	52	55
24	$55 - 9 - 2 =$ _	52	47	45	44
25	$38 - 8 - 6 =$ _	25	26	31	24



26	$30 - 3 - 2 = \underline{\quad}$	27	25	26	30
27	Double of 49 = $\underline{\quad}$	94	107	106	98
28	Double of 92 = $\underline{\quad}$	176	180	184	185
29	Double of 33 = $\underline{\quad}$	69	63	62	66
30	Triple of 49 = $\underline{\quad}$	147	156	157	146
31	Triple of 57 = $\underline{\quad}$	163	179	171	180
32	Triple of 27 = $\underline{\quad}$	84	79	90	81
33	$50 + 41 = \underline{\quad}$	92	91	97	93
34	$11 + 92 = \underline{\quad}$	103	110	111	104
35	$67 + 62 = \underline{\quad}$	130	137	136	129
36	$62 + 21 - 20 = \underline{\quad}$	63	72	66	64
37	$89 + 64 - 44 = \underline{\quad}$	109	112	110	111
38	$99 + 57 - 23 = \underline{\quad}$	135	141	134	133
39	$94 - 60 - 11 = \underline{\quad}$	23	27	25	24
40	$64 - 58 - 1 = \underline{\quad}$	6	5	10	7
41	$68 - 64 - 3 = \underline{\quad}$	1	2	9	3
42	Half of 982 = $\underline{\quad}$	497	491	499	485
43	Half of 498 = $\underline{\quad}$	254	248	257	249
44	Double of 641 = $\underline{\quad}$	1280	1282	1284	1288
45	Double of 172 = $\underline{\quad}$	344	339	336	349
46	Triple of 344 = $\underline{\quad}$	1030	1024	1026	1032
47	Cost price = 271, Selling Price = 437 Profit = $\underline{\quad}$	166	162	170	172
48	Cost price = 781, Selling Price = 1180 Profit = $\underline{\quad}$	397	404	399	392
49	Find the LCM of 78 and 91 ?	543	544	546	541
50	Find the LCM of 90 and 36 ?	175	173	180	150



51	Find the LCM of 30 and 92 ?	1382	1385	1380	1375
52	$46 \times 68 = \_$	3133	3128	3137	3129
53	$70 \times 65 = \_$	4556	4551	4550	4552
54	Double of 85 + Half of 120 = $\_$	238	232	234	230
55	Double of 84 + Half of 110 = $\_$	225	223	224	226
56	Double of 43 + Double of 20 = $\_$	129	126	128	131
57	Double of 20 + Double of 97 = $\_$	239	234	240	236
58	$453 + 29 = \_$	483	490	484	482
59	$333 - 19 = \_$	315	318	323	314
60	Find the HCF of 58, 18 = $\_$	2	6	8	5
61	Find the HCF of 96, 99 = $\_$	5	12	8	3
62	Find the HCF of 68, 76 = $\_$	6	4	7	8
63	$466 + 42 - 2 = \_$	511	515	507	506
64	$141 + 80 - 7 = \_$	214	223	217	215
65	$600 - 73 + 3 = \_$	536	530	531	538
66	$726 - 15 + 9 = \_$	724	722	720	725
67	$258 - 31 + 3 = \_$	231	234	239	230
68	Half of 4734 = $\_$	2372	2367	2375	2365
69	Half of 2174 = $\_$	1082	1087	1086	1089
70	$427 + 924 = \_$	1352	1360	1361	1351
71	$818 + 841 + 284 = \_$	1949	1944	1947	1943
72	$516 - 62 + 28 = \_$	482	487	491	488
73	$476 + 31 - 22 = \_$	494	485	490	486
74	$6960 - 290 = \_$	6673	6671	6675	6670
75	$720 / 8$ Quotient = ?	90	91	92	94



76	$595 / 5$ Quotient = ?	123	119	120	127
77	$810 / 2$ Quotient = ?	406	408	405	407
78	$7 \times 7 \times 6 = \_$	298	294	295	296
79	$3 \times 5 \times 6 = \_$	94	90	95	91
80	$4 \times 5 \times 4 = \_$	88	80	83	81
81	$(96 + 50) \times (55 + 32) = \_$	12703	12702	12708	12704
82	Remainder of $33 / 4 = \_$	2	4	1	6
83	Remainder of $22 / 6 = \_$	13	10	4	5
84	$475 / 95$ Quotient = ?	5	7	6	12
85	$186 / 93$ Quotient = ?	9	11	2	8
86	5% of 260 = _	14	7	13	22
87	25% of 468 = _	115	117	118	109
88	50% of 566 = _	283	276	282	290
89	Prime Factors of 50 = _	6, 10, 11	2, 5, 5	5, 7, 8	9, 12
90	Prime Factors of 91 = _	7, 13	11, 11	14, 22	8, 16
91	Prime Factors of 946 = _	5, 14, 46	8, 15, 48	10, 19, 51	2, 11, 43
92	Multiple of 66 = _	205, 273, 403	198, 264, 396	203, 270, 402	201, 265, 398
93	Multiple of 22 = _	118, 161, 163	114, 158, 160	110, 154, 198	111, 156, 199
94	$\sqrt{441} = \_$	21	26	19	23
95	$\sqrt{625} = \_$	25	31	35	21
96	$\sqrt{9216} = \_$	86	96	90	102
97	$\sqrt{9604} = \_$	98	105	88	103
98	Cube Root of 29791 = _	38	26	31	21
99	Cube Root of 42875 = _	35	28	38	45
100	Cube Root of 50653 = _	45	37	44	27