



Global Mental Math Olympiad 2023

Practice Sheet 3-Answer Key

Challenger Category (Ages 6-8)

Section 1

Question Content	Option 1	Option 2	Option 3	Option 4
$6 + 3 = \underline{\quad}$	0	9	15	19
$9 + 1 = \underline{\quad}$	10	6	18	7
$4 + 6 = \underline{\quad}$	5	11	10	0
$8 + 8 = \underline{\quad}$	11	6	19	16
$4 + 2 = \underline{\quad}$	16	7	2	6
$1 + 9 = \underline{\quad}$	15	5	10	11
$7 + 4 = \underline{\quad}$	21	7	20	11
$7 + 2 = \underline{\quad}$	0	9	19	8
$8 + 7 = \underline{\quad}$	19	6	21	15
$5 + 7 = \underline{\quad}$	12	4	9	10
$30 + 20 = \underline{\quad}$	40	52	45	50
$5 + 6 = \underline{\quad}$	11	20	14	2
$20 + 10 = \underline{\quad}$	30	20	37	29
$25 + 20 = \underline{\quad}$	43	45	47	49
$40 + 45 = \underline{\quad}$	90	85	94	91
$40 + 5 = \underline{\quad}$	45	53	52	38
$5 + 5 = \underline{\quad}$	10	7	1	15
$35 + 5 = \underline{\quad}$	32	37	43	40
$10 + 5 = \underline{\quad}$	25	18	11	15
$25 + 30 = \underline{\quad}$	50	55	58	45



Section 2

Question Content	Option 1	Option 2	Option 3	Option 4
$9 - 8 = \underline{\quad}$	17	7	3	1
$9 - 5 = \underline{\quad}$	4	6	12	2
$3 - 3 = \underline{\quad}$	6	0	7	4
$9 - 7 = \underline{\quad}$	16	5	7	2
$6 - 5 = \underline{\quad}$	11	6	1	5
$30 - 15 = \underline{\quad}$	15	6	20	7
$30 - 10 = \underline{\quad}$	15	29	17	20
$25 - 10 = \underline{\quad}$	10	22	18	15
$10 - 10 = \underline{\quad}$	20	8	8	0
$40 - 35 = \underline{\quad}$	5	6	13	15
$30 - 25 = \underline{\quad}$	13	8	6	5
$45 - 20 = \underline{\quad}$	35	25	31	29
$40 - 5 = \underline{\quad}$	35	41	31	30
$45 - 5 = \underline{\quad}$	37	34	43	40
$30 - 5 = \underline{\quad}$	35	18	25	31

Section 3

Question Content	Option 1	Option 2	Option 3	Option 4
$6 \times 9 = \underline{\quad}$	60	48	47	54
$2 \times 8 = \underline{\quad}$	25	16	8	20
$6 \times 3 = \underline{\quad}$	15	19	18	13
$5 \times 2 = \underline{\quad}$	5	10	0	1
$4 \times 7 = \underline{\quad}$	28	24	20	26
$6 \times 5 = \underline{\quad}$	30	28	31	27
$4 \times 5 = \underline{\quad}$	20	17	13	15
$2 \times 6 = \underline{\quad}$	22	12	15	21
$6 \times 20 = \underline{\quad}$	120	124	128	122
$7 \times 10 = \underline{\quad}$	70	72	69	68
$9 \times 20 = \underline{\quad}$	170	179	180	184
$4 \times 10 = \underline{\quad}$	32	40	44	48
$5 \times 20 = \underline{\quad}$	100	101	108	102
$6 \times 10 = \underline{\quad}$	60	50	58	65
$2 \times 20 = \underline{\quad}$	34	49	30	40



Section 4

Question Content	Option 1	Option 2	Option 3	Option 4
$5^2 = \underline{\quad}$	5	$5 \times 5 \times 5$	5×5	5×5
$2^4 = \underline{\quad}$	$2 \times 2 \times 2 \times 2 \times 2 \times 2$	$2 \times 2 \times 2 \times 2$	2	2×2
$2^2 = \underline{\quad}$	2	2×2	$2 \times 2 \times 2 \times 2$	$2 \times 2 \times 2$
$6^2 = \underline{\quad}$	6×6	6	$6 \times 6 \times 6 \times 6$	$6 \times 6 \times 6$
$8^4 = \underline{\quad}$	8	$8 \times 8 \times 8 \times 8 \times 8 \times 8$	$8 \times 8 \times 8 \times 8$	8×8
$1^4 = \underline{\quad}$	$1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1$	1×1	$1 \times 1 \times 1 \times 1$	$1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1 \times 1$
$5^4 = \underline{\quad}$	$5 \times 5 \times 5 \times 5$	$5 \times 5 \times 5 \times 5 \times 5 \times 5$	5	$5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5$
$5^3 = \underline{\quad}$	5	$5 \times 5 \times 5 \times 5$	5×5	$5 \times 5 \times 5$
$9^3 = \underline{\quad}$	$9 \times 9 \times 9 \times 9$	$9 \times 9 \times 9 \times 9 \times 9$	9	$9 \times 9 \times 9$

Section 5

Question Content	Option 1	Option 2	Option 3	Option 4
$3 + \underline{\quad} = 4$	6	7	10	1
$2 + \underline{\quad} = 10$	8	10	18	0
$7 + \underline{\quad} = 10$	2	17	13	3
$2 + \underline{\quad} = 11$	4	9	2	10
$2 + \underline{\quad} = 6$	4	8	2	6
$10 - \underline{\quad} = 4$	11	2	8	6
$24 - \underline{\quad} = 22$	2	12	10	8
$31 - \underline{\quad} = 26$	3	1	5	4
$18 - \underline{\quad} = 13$	3	11	5	6
$96 - \underline{\quad} = 87$	12	9	3	4
$15 - \underline{\quad} = 10$	5	25	4	9
$65 + \underline{\quad} = 70$	15	8	5	12
$50 + \underline{\quad} = 54$	3	4	1	14
$10 + \underline{\quad} = 15$	2	25	5	7
$33 + \underline{\quad} = 42$	19	9	2	17

Section 6

Question Content	Option 1	Option 2	Option 3	Option 4
$716 \times 87 \times 0 = \underline{\quad}$	6	1	0	9
$941 \times 95 \times 0 = \underline{\quad}$	1	4	0	2
$361 \times \underline{\quad} \times 67 = 0$	1	3	0	9
$287 \times \underline{\quad} \times 58 = 0$	8	0	5	6
$992 \times 25 \times \underline{\quad} = 0$	1	0	8	4
$795 \times 73 \times \underline{\quad} = 0$	9	2	1	0
$4 \times 0 = \underline{\quad}$	0	1	4	8
$2 \times 0 = \underline{\quad}$	0	6	1	3
$7 \times 0 = \underline{\quad}$	1	8	7	0
$5 \times 0 = \underline{\quad}$	1	2	5	0



Section 7

Question Content	Option 1	Option 2	Option 3	Option 4
54 _ 3 = 57	+	-	X	/
96 _ 9 = 105	-	X	+	/
41 _ 7 = 48	-	X	+	/
52 _ 2 = 54	-	X	/	+
41 _ 6 = 47	-	+	X	/
13 _ 4 = 9	-	+	X	/
52 _ 5 = 47	-	+	X	/
69 _ 2 = 67	+	-	X	/
65 _ 8 = 57	+	-	X	/
89 _ 8 = 81	+	-	X	/

Section 8

Question Content	Option 1	Option 2	Option 3	Option 4
Double of 6 = _	13	16	12	6
Double of 4 = _	17	7	8	12
Double of 7 = _	11	17	14	22
Double of 8 = _	16	21	10	26
Double of 35 = _	63	68	70	76
Double of 5 = _	1	10	9	8
Double of 45 = _	100	83	87	90
Double of 15 = _	36	40	29	30
Double of 40 = _	71	76	74	80
Double of 78 = _	161	152	156	149
Double of 55 = _	106	110	118	120
Double of 84 = _	158	167	168	165
Double of 61 = _	127	121	122	116
Double of 33 = _	59	58	70	66

Section 9

Question Content	Option 1	Option 2	Option 3	Option 4
Triple of 8 = _	24	32	25	18
Triple of 1 = _	13	4	3	1
Triple of 3 = _	12	14	8	9
Triple of 9 = _	17	36	28	27
Triple of 7 = _	14	26	24	21



Section 10

Question Content	Option 1	Option 2	Option 3	Option 4
Half of 60 = _	21	40	30	26
Half of 50 = _	25	21	35	19
Half of 40 = _	28	15	25	20
Half of 30 = _	21	11	15	16
Half of 70 = _	36	27	35	25

Section 11

Question Content	Option 1	Option 2	Option 3	Option 4
$75 + 9 + 6 = _$	90	89	99	85
$22 + 9 + 9 = _$	39	37	40	42
$32 + 4 + 1 = _$	37	28	29	44
$36 + 7 + 1 = _$	49	51	44	48
$73 + 4 + 8 = _$	88	85	78	87
$14 + 8 - 6 = _$	21	12	9	16
$84 + 7 - 4 = _$	96	87	94	92
$93 + 7 - 6 = _$	102	90	94	89
$94 + 9 - 6 = _$	97	103	105	101
$75 + 1 - 1 = _$	73	75	80	85
$66 - 6 + 1 = _$	61	64	68	57
$40 - 6 + 3 = _$	37	43	38	40
$61 - 9 + 8 = _$	60	68	59	51
$71 - 8 + 8 = _$	73	63	69	71
$91 - 7 + 1 = _$	89	86	85	81
$60 + 9 = _$	61	59	78	69
$39 + 1 = _$	40	35	33	30
$39 + 7 = _$	54	47	46	43
$99 + 3 = _$	110	102	95	105
$73 + 1 = _$	66	74	75	80



Section 12

Question Content	Option 1	Option 2	Option 3	Option 4
$2 \times 2 \times 2 \times 2 = _$	2^8	2^4	2^6	2^2
$6 \times 6 \times 6 \times 6 = _$	6^8	6^9	6^5	6^4
$3 \times 3 = _$	3^4	3^3	3^2	3^9
$2 \times 2 \times 2 = _$	2^5	2^3	2^2	2^9
$6 \times 6 \times 6 = _$	6^2	6^3	6^9	6^4
$53 \times 53 = _$	53^2	53^1	53^7	53^8
$71 \times 71 \times 71 \times 71 = _$	71^3	71^2	71^4	71^7
$39 \times 39 \times 39 \times 39 = _$	39^4	39^5	39^8	39^7
$88 \times 88 = _$	88^2	88^3	88^5	88^4
$12 \times 12 \times 12 \times 12 = _$	12^2	12^7	12^5	12^4