



## Azerbaijan Mental Math Olympiad 2023

### Practice Sheet 3 (Answer Key) Master (Age : 9-11 years)

Section 1					
No	Mix Addition & Subtraction	Option 1	Option 2	Option 3	Option 4
1	$8 + 3 + 7 =$	19	16	12	18
2	$8 + 3 + 6 =$	21	25	17	14
3	$6 + 2 + 8 =$	12	16	9	17
4	$5 + 3 + 7 =$	15	17	12	23
5	$5 + 4 + 7 =$	10	16	20	21
6	$5 + 3 - 6 =$	8	5	2	4
7	$9 + 2 - 6 =$	4	11	2	5
8	$9 + 4 - 8 =$	3	5	2	4
9	$9 + 2 - 9 =$	3	4	2	1
10	$8 + 2 - 8 =$	7	0	2	10



## Section 2

No	Mix Addition & Subtraction	Option 1	Option 2	Option 3	Option 4
1	$64 + 7 + 4 =$	75	82	74	72
2	$44 + 3 + 4 =$	51	61	53	46
3	$58 + 3 + 4 =$	62	65	72	69
4	$93 + 4 + 8 =$	99	97	104	105
5	$53 + 6 + 6 =$	65	58	72	69
6	$63 + 6 - 6 =$	54	57	65	63
7	$56 + 7 - 2 =$	67	54	63	61
8	$73 + 9 - 3 =$	88	80	79	77
9	$72 + 9 - 8 =$	80	73	81	76
10	$76 + 8 - 2 =$	75	90	91	82
11	$35 - 9 + 9 =$	45	35	33	39
12	$39 - 9 + 3 =$	31	38	33	37
13	$76 - 2 + 7 =$	71	84	81	89
14	$34 - 9 + 2 =$	26	27	36	20
15	$81 - 9 + 9 =$	75	86	81	72

## Section 3

No	Multiplication	Option 1	Option 2	Option 3	Option 4
1	$96 \times 10 =$	9600	969	960	955
2	$27 \times 100 =$	2700	2696	2702	2697
3	$71 \times 10 =$	715	714	710	703
4	$72 \times 100 =$	7200	7195	7194	7210
5	$25 \times 100 =$	2500	2503	2509	2495
6	$85 \times 100 =$	8506	8500	8505	8498
7	$72 \times 10 =$	720	721	712	715
8	$55 \times 100 =$	5504	5499	5501	5500
9	$24 \times 10 =$	240	230	235	250
10	$86 \times 10 =$	860	867	851	865



### Section 4

No	Mix Addition & Subtraction	Option 1	Option 2	Option 3	Option 4
1	$59 - 7 =$	62	52	58	49
2	$97 - 7 =$	91	90	94	80
3	$70 - 9 =$	69	58	61	53
4	$78 - 9 =$	75	69	66	67
5	$74 + 9 =$	82	88	83	76
6	$66 + 7 =$	64	73	83	68
7	$53 + 9 =$	58	69	62	68
8	$64 - 8 =$	56	52	47	55
9	$91 + 9 =$	90	96	100	92
10	$67 + 7 =$	79	74	77	84

### Section 5

No		Option 1	Option 2	Option 3	Option 4
1	Double of 5 + Half of 2 =	11	14	10	7
2	Double of 4 + Half of 4 =	6	20	8	10
3	Double of 6 + Half of 6 =	21	17	12	15
4	Double of 3 + Half of 4 =	11	10	8	1
5	Double of 7 + Half of 8 =	9	11	14	18
6	Double of 7 + Half of 76 =	50	52	59	43
7	Double of 4 + Half of 74 =	40	36	51	45
8	Double of 8 + Half of 8 =	20	12	24	15
9	Double of 5 + Half of 82 =	45	54	53	51
10	Double of 4 + Half of 18 =	17	26	15	14



### Section 6

No		Option 1	Option 2	Option 3	Option 4
1	Half of 92 - Double of 3 =	33	49	40	35
2	Half of 82 - Double of 7 =	27	23	29	24
3	Half of 88 - Double of 9 =	31	30	26	19
4	Half of 84 - Double of 9 =	24	19	18	34
5	Half of 98 - Double of 7 =	35	38	44	30

### Section 7

No	Multiplication	Option 1	Option 2	Option 3	Option 4
1	$3 \times 0 =$	1	2	0	3
2	$5 \times 0 \times 3 =$	3	0	10	5
3	$5 \times 0 =$	4	5	2	0
4	$13 \times 3 \times 0 =$	6	13	10	0
5	$19 \times 0 =$	19	9	3	0

### Section 8

No	Multiplication	Option 1	Option 2	Option 3	Option 4
1	$4 \times 5 =$	29	26	22	20
2	$5 \times 8 =$	19	23	40	12
3	$4 \times 4 =$	16	16	13	21
4	$7 \times 4 =$	28	37	32	43
5	$4 \times 8 =$	6	32	16	17
6	$3 \times 8 =$	22	9	24	10
7	$4 \times 3 =$	7	22	13	12
8	$3 \times 3 =$	28	9	29	27
9	$3 \times 4 =$	28	21	12	26
10	$7 \times 9 =$	33	26	63	36



### Section 9

No	Multiplication	Option 1	Option 2	Option 3	Option 4
1	$25 \times 4 =$	100	98	96	105
2	$15 \times 8 =$	127	113	112	120
3	$23 \times 7 =$	161	154	158	171
4	$20 \times 5 =$	107	110	98	100
5	$14 \times 9 =$	116	126	133	132

### Section 10

No		Option 1	Option 2	Option 3	Option 4
1	Half of 452 =	236	226	232	223
2	Half of 616 =	309	308	312	298
3	Half of 560 =	288	277	280	272
4	Half of 356 =	184	178	175	176
5	Half of 256 =	127	133	128	121

### Section 11

No	Find the Mean	Option 1	Option 2	Option 3	Option 4
1	20, 6, 13 =	19	6	13	7
2	20, 12, 16 =	7	22	13	16
3	30, 6, 18 =	10	18	11	9
4	10, 6, 8 =	9	2	8	7
5	10, 12, 11 =	16	9	11	19



### Section 12

No	Mix Addition & Subtraction	Option 1	Option 2	Option 3	Option 4
1	$75 + 92 =$	172	173	167	166
2	$63 + 72 =$	135	137	126	133
3	$66 + 87 =$	153	146	149	163
4	$80 + 79 =$	154	157	159	158
5	$98 + 89 =$	187	186	196	182
6	$76 - 39 =$	37	34	35	32
7	$77 - 56 =$	21	24	18	22
8	$72 - 53 =$	17	21	16	19
9	$75 - 58 =$	17	9	10	22
10	$97 - 33 =$	56	64	54	68

### Section 13

No	Exponents	Option 1	Option 2	Option 3	Option 4
1	$7^2 =$	56	57	42	49
2	$3^2 =$	1	15	14	9
3	$4^2 =$	15	25	9	16
4	$2^3 =$	8	6	10	5
5	$8^3 =$	518	516	507	512



### Section 14

No	Brackets	Option 1	Option 2	Option 3	Option 4
1	$(2 + 7) \times (2 + 1) = \underline{\quad}$	34	35	20	27
2	$(7 + 9) \times (4 - 3) = \underline{\quad}$	8	22	21	16
3	$(8 + 2) \times (3 + 1) = \underline{\quad}$	39	49	33	40
4	$(8 + 6) \times (6 - 3) = \underline{\quad}$	39	42	44	32
5	$(2 + 8) \times (1 + 1) = \underline{\quad}$	25	20	11	14
6	$(6 + 6) \times (5 - 1) = \underline{\quad}$	48	55	42	54
7	$(3 + 9) \times (3 + 1) = \underline{\quad}$	54	52	43	48
8	$(8 + 6) \times (5 - 1) = \underline{\quad}$	56	53	51	55
9	$(9 + 4) \times (3 + 3) = \underline{\quad}$	81	78	77	85
10	$(6 + 9) \times (5 - 1) = \underline{\quad}$	59	60	63	64

### Section 15

No		Option 1	Option 2	Option 3	Option 4
1	Double of 33 - Half of 20 =	56	46	45	54
2	Double of 25 - Half of 30 =	66	30	45	35
3	Double of 45 - Half of 24 =	78	87	77	88
4	Double of 44 - Half of 44 =	53	56	44	66
5	Double of 30 - Half of 22 =	39	49	56	55

### Section 16

No	Division Perfect Answers	Option 1	Option 2	Option 3	Option 4
1	$21 / 3 =$	17	7	13	4
2	$66 / 3 =$	23	22	26	12
3	$44 / 4 =$	19	8	11	3
4	$105 / 7 =$	13	15	21	12
5	$120 / 8 =$	15	11	6	14



### Section 17

No		Option 1	Option 2	Option 3	Option 4
1	Triple of 45 =	136	133	129	135
2	Triple of 90 =	274	278	270	267
3	Triple of 13 =	35	39	32	40
4	Triple of 74 =	222	224	219	230
5	Triple of 70 =	204	210	214	215
6	Triple of 78 =	240	227	234	228
7	Triple of 41 =	114	129	120	123
8	Triple of 69 =	199	207	200	198
9	Triple of 57 =	172	165	171	170
10	Triple of 81 =	248	241	243	251

### Section 18

No		Option 1	Option 2	Option 3	Option 4
1	Double of 29 + Triple of 3 =	67	70	66	63
2	Double of 20 + Triple of 9 =	63	77	65	67
3	Double of 46 + Triple of 2 =	104	100	95	98
4	Double of 15 + Triple of 7 =	54	53	51	42
5	Double of 29 + Triple of 2 =	55	57	60	64





### Section 19

No	Exponents	Option 1	Option 2	Option 3	Option 4
1	$3^2 + 2^2 + 4^2 =$	39	29	35	26
2	$2^2 + 5^2 + 2^2 =$	34	33	37	23
3	$4^2 + 2^2 + 3^2 =$	37	26	29	21
4	$4^2 + 2^2 + 2^2 =$	30	24	21	22
5	$3^2 + 4^2 + 4^2 =$	40	46	41	34
6	$9^2 + 2^2 - 4^2 =$	60	69	79	64
7	$6^2 + 4^2 - 3^2 =$	39	50	43	49
8	$8^2 + 3^2 - 4^2 =$	57	53	48	56
9	$9^2 + 4^2 - 2^2 =$	83	89	93	85
10	$9^2 + 3^2 - 4^2 =$	79	74	77	84