



## **Azerbaijan Mental Math Olympiad 2023**

### **Practice Sheet 2 for Master Category(Age : 9 years to 11 years)**

#### **Answer Key**

#### **Section 1**

1)  $6 + 3 + 5 = \mathbf{14}$

2)  $9 + 8 + 1 = \mathbf{18}$

3)  $4 + 2 + 7 = \mathbf{13}$

4)  $5 + 3 + 9 = \mathbf{17}$

5)  $7 + 6 + 1 = \mathbf{14}$

6)  $9 + 4 - 1 = \mathbf{12}$

7)  $8 + 2 - 2 = \mathbf{8}$

8)  $6 + 7 - 4 = \mathbf{9}$

9)  $5 + 2 - 6 = \mathbf{1}$

10)  $3 + 8 - 5 = \mathbf{6}$



## Section 2

1)  $29 + 3 = \mathbf{32}$

2)  $56 + 8 = \mathbf{64}$

3)  $17 + 6 = \mathbf{23}$

4)  $91 + 4 = \mathbf{95}$

5)  $62 - 4 = \mathbf{58}$

6)  $84 - 5 = \mathbf{79}$

7)  $47 - 8 = \mathbf{39}$

8)  $79 + 5 = \mathbf{84}$

9)  $55 + 6 = \mathbf{61}$

10)  $32 - 3 = \mathbf{29}$



### Section 3

1. Double of 7 + Half of 8 = **18**
2. Double of 4 + Half of 6 = **11**
3. Double of 5 + Half of 4 = **12**
4. Double of 8 + Half of 2 = **17**
5. Double of 6 + Half of 6 = **15**

### Section 4

- 1) Half of 24 - Double of 4 = **4**
- 2) Half of 48 - Double of 5 = **14**
- 3) Half of 36 - Double of 2 = **14**
- 4) Half of 62 - Double of 7 = **17**
- 5) Half of 60 - Double of 6 = **18**



## Section 5

1)  $32 + 6 + 4 = \mathbf{42}$

2)  $88 + 4 + 2 = \mathbf{94}$

3)  $64 + 7 - 4 = \mathbf{67}$

4)  $37 + 5 - 6 = \mathbf{36}$

5)  $21 + 9 - 3 = \mathbf{27}$

## Section 6

1)  $25 \times 10 = \mathbf{250}$

2)  $42 \times 10 = \mathbf{420}$

3)  $75 \times 100 = \mathbf{7500}$

4)  $91 \times 100 = \mathbf{9100}$

5)  $4444 \times 100 = \mathbf{444400}$



## Section 7

1)  $7 \times 0 = \mathbf{0}$

2)  $12 \times 0 = \mathbf{0}$

3)  $9 \times 0 \times 5 = \mathbf{0}$

4)  $16 \times 0 \times 2 = \mathbf{0}$

5)  $20 \times 0 \times 8 = \mathbf{0}$



## Section 8

1)  $4^2 = \mathbf{16}$

2)  $6^2 = \mathbf{36}$

3)  $9^2 = \mathbf{81}$

4)  $4^3 = \mathbf{64}$

5)  $3^3 = \mathbf{27}$

6)  $4^2 + 6^2 = \mathbf{52}$

7)  $5^2 + 7^2 = \mathbf{74}$

8)  $3^3 - 2^2 = \mathbf{23}$

9)  $6^2 + 2^2 + 1^2 = \mathbf{41}$

10)  $7^2 + 3^2 - 2^2 = \mathbf{54}$



## Section 9

- 1) Double of 8 = **16**
- 2) Double of 16 = **32**
- 3) Double of 22 = **44**
- 4) Double of 40 = **80**
- 5) Double of 50 = **100**

## Section 10

- 1) Half of 20 = **10**
- 2) Half of 48 = **24**
- 3) Half of 14 = **7**
- 4) Half of 72 = **36**
- 5) Half of 30 = **15**



## Section 11

- 1) Triple of 9 = **27**
- 2) Triple of 18 = **54**
- 3) Triple of 24 = **72**
- 4) Triple of 30 = **90**
- 5) Triple of 45 = **135**





## **Section 12**

- 1) Double of 12 - Half of 4 = **22**
- 2) Double of 18 - Half of 8 = **32**
- 3) Double of 10 + Triple of 2 = **26**
- 4) Double of 30 + Triple of 3 = **69**
- 5) Double of 14 + Half of 24 = **40**
- 6) Double of 20 + Half of 18 = **49**
- 7) Half of 102 = **51**
- 8) Half of 460 = **230**
- 9) Half of 774 = **387**
- 10) Half of 50 - Triple of 5 = **10**



## Section 13

1)  $42 \times 5 = \mathbf{210}$

2)  $17 \times 9 = \mathbf{153}$

3)  $28 \times 6 = \mathbf{168}$

4)  $60 \times 3 = \mathbf{180}$

5)  $80 \times 2 = \mathbf{160}$



## Section 14

1)  $49 + 24 = \mathbf{73}$

2)  $68 + 11 = \mathbf{79}$

3)  $82 + 13 = \mathbf{95}$

4)  $49 + 36 = \mathbf{85}$

5)  $63 + 27 = \mathbf{90}$

6)  $88 - 43 = \mathbf{45}$

7)  $59 - 29 = \mathbf{30}$

8)  $76 - 48 = \mathbf{28}$

9)  $53 - 22 = \mathbf{31}$

10)  $75 - 35 = \mathbf{40}$



## Section 15

- 1)  $(2 + 3) \times (9 + 1) = \mathbf{50}$
- 2)  $(3 + 5) \times (5 + 1) = \mathbf{48}$
- 3)  $(9 + 6) \times (6 + 2) = \mathbf{120}$
- 4)  $(4 + 6) \times (8 + 2) = \mathbf{100}$
- 5)  $(5 + 7) \times (7 + 3) = \mathbf{120}$

## Section 16

- 1) 20, 25, 30 Mean = **25**
- 2) 10, 20, 30 Mean = **20**
- 3) 18, 24, 36 Mean = **26**
- 4) 40, 50, 60 Mean = **50**
- 5) 16, 24, 32 Mean = **24**



## Section 17

Please Note: Abbreviation "SP" means Selling Price, "CP" means Cost Price

- 1) Selling Price = 75, Cost Price = 50 Profit = **25**
- 2) Selling Price = 80, Cost Price = 60 Profit = **20**
- 3) Selling Price = 200, Cost Price = 160 Profit = **40**
- 4) Selling Price = 420, Cost Price = 360 Profit = **60**
- 5) Cost Price = 50, Selling Price = 40, Loss = **10**



## Section 18

- 1)  $80 / 4 = \mathbf{20}$
- 2)  $48 / 8 = \mathbf{6}$
- 3)  $360 / 9 = \mathbf{40}$
- 4)  $150 / 5 = \mathbf{30}$
- 5)  $270 / 3 = \mathbf{90}$

## Section 19

- 6)  $20\% \text{ of } 150 = \mathbf{30}$
- 7)  $30\% \text{ of } 90 = \mathbf{27}$
- 8)  $40\% \text{ of } 120 = \mathbf{48}$
- 9)  $75\% \text{ of } 80 = \mathbf{60}$
- 10)  $15\% \text{ of } 200 = \mathbf{30}$



## Section 20

- 1)  $3.75 \times 100 = \mathbf{375}$
- 2)  $8.25 \times 100 = \mathbf{825}$
- 3)  $0.8 \times 1000 = \mathbf{800}$
- 4)  $2.5 \times 1000 = \mathbf{2500}$
- 5)  $0.67 \times 100 = \mathbf{67}$