



Bahrain Mental Math Olympiad 2025

Grand Master Category (Age : 12 years and above)

Practice Sheet 5- Answer Key

Section 1

1) $9 + 3 + 5 = \mathbf{17}$

2) $17 + 14 + 5 = \mathbf{36}$

3) $8 + 6 + 12 = \mathbf{26}$

4) $27 + 12 - 5 = \mathbf{34}$

5) $68 - 10 - 20 = \mathbf{38}$



Section 2

- 1) Double of 10 = **20**
- 2) Double of 24 = **48**
- 3) Double of 9 = **18**
- 4) Double of 15 = **30**
- 5) Double of 56 = **112**

Section 3

- 1) Triple of 12 = **36**
- 2) Triple of 16 = **48**
- 3) Triple of 25 = **75**
- 4) Triple of 33 = **99**
- 5) Triple of 39 = **117**



Section 4

1) $32 + 8 + 5 = \mathbf{45}$

2) $76 + 9 + 3 = \mathbf{88}$

3) $54 + 7 + 8 = \mathbf{69}$

4) $21 + 9 + 3 = \mathbf{33}$

5) $71 + 2 = \mathbf{73}$

6) $44 + 5 = \mathbf{49}$

7) $98 + 6 = \mathbf{104}$

8) $60 - 12 - 3 = \mathbf{45}$

9) $30 - 5 - 7 = \mathbf{18}$

10) $91 - 17 - 9 = \mathbf{65}$



Section 5

- 1) Double of 432 = **864**
- 2) Double of 93 = **186**
- 3) Double of 825 = **1650**
- 4) Double of 559 = **1118**
- 5) Double of 717 = **1434**

Section 6

- 1) Half of 600 = **300**
- 2) Half of 320 = **160**
- 3) Half of 1000 = **500**
- 4) Half of 464 = **232**
- 5) Half of 880 = **440**



Section 7

- 1) Triple of 147 = **441**
- 2) Triple of 153 = **459**
- 3) Triple of 244 = **732**
- 4) Triple of 384 = **1152**
- 5) Triple of 499 = **1497**

Section 8

- 1) Selling Price = 920, Cost Price = 710, Profit = **210**
- 2) Selling Price = 465, Cost Price = 275, Profit = **190**
- 3) Selling Price = 570, Cost Price = 480, Profit = **90**
- 4) Cost Price = 320, Selling Price = 280, Loss = **40**
- 5) Cost Price = 920, Selling Price = 860, Loss = **60**



Section 9

- 1) $4 \times 11 = \mathbf{44}$
- 2) $8 \times 6 = \mathbf{48}$
- 3) $20 \times 2 = \mathbf{40}$
- 4) $14 \times 5 = \mathbf{70}$
- 5) $3 \times 15 = \mathbf{45}$
- 6) $9 \times 3 \times 7 = \mathbf{189}$
- 7) $13 \times 2 \times 3 = \mathbf{78}$
- 8) $6 \times 6 \times 9 = \mathbf{324}$
- 9) $10 \times 11 = \mathbf{110}$
- 10) $7 \times 8 = \mathbf{56}$



Section 10

- 1) Double of 18 + Half of 72 = **72**
- 2) Half of 160 - Double of 30 = **20**
- 3) Double of 79 + Half of 48 = **182**
- 4) Half of 98 - Double of 19 = **11**
- 5) Double of 51 + Half of 92 = **148**

Section 11

Squaring Numbers

- 1) $8^2 = \mathbf{64}$
- 2) $16^2 = \mathbf{256}$
- 3) $21^2 = \mathbf{441}$
- 4) $32^2 = \mathbf{1024}$
- 5) $41^2 = \mathbf{1681}$



Section 12

- 1) $426 + 21 = \mathbf{447}$
- 2) $852 - 67 = \mathbf{785}$
- 3) $215 + 48 - 13 = \mathbf{250}$
- 4) $987 - 76 + 19 = \mathbf{930}$
- 5) $648 + 57 - 37 = \mathbf{668}$
- 6) $372 - 29 + 6 = \mathbf{349}$
- 7) $789 - 83 - 17 = \mathbf{689}$
- 8) $345 + 53 - 15 = \mathbf{383}$
- 9) $1123 - 98 - 34 = \mathbf{991}$
- 10) $934 + 42 - 47 = \mathbf{929}$



Section 13

- 1) $259 + 174 = \mathbf{433}$
- 2) $738 + 681 = \mathbf{1419}$
- 3) $124 + 352 = \mathbf{476}$
- 4) $820 + 297 = \mathbf{1117}$
- 5) $2374 + 1689 = \mathbf{4063}$



Section 14

- 1) $72 / 8$ Quotient = **9**
- 2) $162 / 9$ Quotient = **18**
- 3) $294 / 6$ Quotient = **49**
- 4) $630 / 10$ Quotient = **63**
- 5) $936 / 9$ Quotient = **104**
- 6) $500 / 25$ Quotient = **20**
- 7) $54 / 6$ Quotient = **9**
- 8) $89 / 8$ Remainder = **1**
- 9) $409 / 12$ Remainder = **1**
- 10) $121 / 11$ Remainder = **0**



Section 15

- 1) $24:3 = \mathbf{8:1}$
- 2) $40:160 = \mathbf{1:4}$
- 3) $63:567 = \mathbf{1:9}$
- 4) $35:245 = \mathbf{1:7}$
- 5) $350:35 = \mathbf{10:1}$

Section 16

- 1) $23 \times 10 = \mathbf{230}$
- 2) $47 \times 10 = \mathbf{470}$
- 3) $94 \times 100 = \mathbf{9400}$
- 4) $8963 \times 100 = \mathbf{896300}$
- 5) $7563 \times 0 = \mathbf{0}$



Section 17

- 1) $0.1 \times 100 = \mathbf{10}$
- 2) $2.5 \times 100 = \mathbf{250}$
- 3) $5.6 \times 10 = \mathbf{56}$
- 4) $1.23 \times 1000 = \mathbf{1230}$
- 5) $0.005 \times 1000 = \mathbf{5}$

Section 18

- 1) $3.25 / 100 = \mathbf{0.0325}$
- 2) $6.8 / 1000 = \mathbf{0.0068}$
- 3) $9.6 / 100 = \mathbf{0.096}$
- 4) $1.23 / 1000 = \mathbf{0.00123}$
- 5) $4.95 / 100 = \mathbf{0.0495}$



Section 19

- 1) 12, 20, 28 Mean = **20**
- 2) 6, 10, 20, 40 Mean = **19**
- 3) 15, 30, 45, 74 Mean = **41**
- 4) 7, 19, 26, 28, 35, 47 Mean = **27**
- 5) 100, 200, 300, 400, 500 Mean = **300**

Section 20

- 1) 15% of 200 = **30**
- 2) 50% of 80 = **40**
- 3) 75% of 240 = **180**
- 4) 12% of 5000 = **600**
- 5) 35% of 800 = **280**



Section 21

- 1) Find the HCF of 36, 48 = **12**
- 2) Find the HCF of 72, 90 = **18**
- 3) Find the LCM of 20, 25 = **100**
- 4) Find the LCM of 18, 30 = **90**
- 5) Find the LCM of 24, 36 = **72**

Section 22

- 1) $92 \times 126 =$ **11592**
- 2) $346 \times 129 =$ **44634**
- 3) $511 \times 237 =$ **121107**
- 4) $925 \times 313 =$ **289525**
- 5) $1756 \times 412 =$ **723472**



Section 23

- 1) Prime factors of 54 = **2,3,3,3**
- 2) Prime factors of 100 = **2,2,5,5**
- 3) Prime factors of 126 = **2,3,3,7**
- 4) Prime factors of 144 = **2,2,2,2,3,3**
- 5) Prime factors of 210 = **2,3,5,7**

Section 24

Square Root -Perfect Square

- 1) $\sqrt{1936} = \mathbf{44}$
- 2) $\sqrt{2401} = \mathbf{49}$
- 3) $\sqrt{1089} = \mathbf{33}$
- 4) $\sqrt{3721} = \mathbf{61}$
- 5) $\sqrt{5476} = \mathbf{74}$



Section 25

Cube root

1) $\sqrt[3]{1331} = 11$

2) $\sqrt[3]{2197} = 13$

3) $\sqrt[3]{4913} = 17$

4) $\sqrt[3]{8000} = 20$

5) $\sqrt[3]{10648} = 22$