



Global Mental Math Olympiad 2024

Question Bank 1-Answer Key

Zen Master Challenge

| Sr. no. | Question Content | Option 1 | Option 2 | Option 3 | Option 4 |
|---------|---|----------|----------|----------|----------|
| 1 | Remainder of $192 / 93 = \underline{\quad}$ | 6 | 13 | 7 | 14 |
| 2 | Prime Factors of 706 = $\underline{\quad}$ | 2, 353 | 8, 358 | 4, 355 | 10, 360 |
| 3 | 65% of 400 = $\underline{\quad}$ | 260 | 265 | 264 | 251 |
| 4 | $(11 + 63) \times (99 + 58) = \underline{\quad}$ | 11618 | 11622 | 11608 | 11621 |
| 5 | $762 + 27 - 6 = \underline{\quad}$ | 788 | 773 | 783 | 784 |
| 6 | Half of 4840 = $\underline{\quad}$ | 2420 | 2413 | 2412 | 2419 |
| 7 | $3102 / 6$ Quotient = $\underline{\quad}$ | 519 | 517 | 526 | 507 |
| 8 | $883 + 92 = \underline{\quad}$ | 976 | 965 | 984 | 975 |
| 9 | Cube Root of 13824 = $\underline{\quad}$ | 23 | 34 | 28 | 24 |
| 10 | $244 + 315 = \underline{\quad}$ | 560 | 559 | 565 | 564 |
| 11 | Find the LCM of 56 and 88 ? | 613 | 625 | 618 | 616 |
| 12 | Find the HCF of 42, 56 = $\underline{\quad}$ | 22 | 4 | 18 | 14 |
| 13 | 6% of 150 = $\underline{\quad}$ | 9 | 1 | 8 | 2 |
| 14 | 24, 38, 49 Mean = $\underline{\quad}$ | 38 | 37 | 39 | 28 |
| 15 | $84^2 = \underline{\quad}$ | 7056 | 7057 | 7060 | 7053 |
| 16 | Cost price = 208, Selling Price = 68 Loss = $\underline{\quad}$ | 140 | 142 | 139 | 148 |
| 17 | Find the LCM of 97 and 27 ? | 2615 | 2622 | 2612 | 2619 |
| 18 | Double of 76 + Half of 38 = $\underline{\quad}$ | 173 | 172 | 171 | 161 |
| 19 | $510 / 3$ Quotient = $\underline{\quad}$ | 170 | 160 | 176 | 177 |
| 20 | Cost price = 786, Selling Price = 235 Loss = $\underline{\quad}$ | 551 | 547 | 550 | 541 |
| 21 | Double of 26 + Double of 78 = $\underline{\quad}$ | 217 | 214 | 208 | 210 |
| 22 | Cost price = 645, Selling Price = 328 Loss = $\underline{\quad}$ | 324 | 326 | 316 | 317 |
| 23 | $152 - 83 + 50 = \underline{\quad}$ | 120 | 119 | 126 | 109 |
| 24 | $388 \times 2 = \underline{\quad}$ | 766 | 777 | 779 | 776 |
| 25 | $6.59 + 7.135 = \underline{\quad}$ | 22.725 | 16.725 | 13.725 | 13.735 |



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|----|-------------------------------|-------|-------|-------|------|
| 26 | Triple of 524 = _ | 1562 | 1572 | 1576 | 1577 |
| 27 | $31^2 =$ _ | 961 | 958 | 952 | 959 |
| 28 | $92 + 78 - 58 =$ _ | 102 | 112 | 119 | 114 |
| 29 | $85 - 53 - 10 =$ _ | 22 | 29 | 31 | 23 |
| 30 | $\sqrt{3136} =$ _ | 54 | 66 | 62 | 56 |
| 31 | $\sqrt{1600} =$ _ | 46 | 42 | 30 | 40 |
| 32 | $7872 - 501 =$ _ | 7371 | 7372 | 7373 | 7361 |
| 33 | $817 - 52 =$ _ | 766 | 765 | 773 | 767 |
| 34 | 50% of 42 = _ | 21 | 23 | 24 | 13 |
| 35 | Double of 326 = _ | 652 | 650 | 661 | 659 |
| 36 | $351 + 57 - 4 =$ _ | 394 | 408 | 404 | 444 |
| 37 | Find the LCM of 69 and 46 ? | 142 | 147 | 138 | 131 |
| 38 | Cube Root of 15625 = _ | 25 | 15 | 30 | 26 |
| 39 | $49 \times 57 =$ _ | 2794 | 2798 | 2800 | 2793 |
| 40 | Double of 11 + Half of 56 = _ | 53 | 40 | 50 | 52 |
| 41 | Half of 8066 = _ | 4033 | 4039 | 4038 | 4031 |
| 42 | $84 \times _ = 420$ | 10 | 6 | 5 | 11 |
| 43 | $28 + 24 - 16 =$ _ | 37 | 26 | 36 | 44 |
| 44 | $687 - 37 =$ _ | 650 | 651 | 652 | 656 |
| 45 | $49 : 35 =$ _ | 10:13 | 7:5 | 14:13 | 9:7 |
| 46 | $82 \times 41 =$ _ | 3369 | 3352 | 3368 | 3362 |
| 47 | $885 - 33 + 27 =$ _ | 886 | 869 | 879 | 880 |
| 48 | 59, 25, 71, 62, 68 Mean = _ | 52 | 57 | 48 | 65 |
| 49 | $56 : 104 =$ _ | 12:15 | 12:21 | 12:18 | 7:13 |
| 50 | 50% of 58 = _ | 24 | 32 | 28 | 29 |



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| 51 | Half of 892 = _ | 446 | 450 | 444 | 442 |
| 52 | $80 \times _ = 720$ | 15 | 12 | 9 | 10 |
| 53 | Half of 6428 = _ | 3214 | 3206 | 3211 | 3207 |
| 54 | 14, 80, 33, 28, 80 Mean = _ | 43 | 47 | 49 | 46 |
| 55 | Cost price = 664, Selling Price = 1096 Profit = _ | 435 | 434 | 422 | 432 |
| 56 | Prime Factors of 30 = _ | 4, 8 | 7, 9 | 2, 3, 5 | 10, 12 |
| 57 | $883 - 91 + 1 = _$ | 793 | 795 | 783 | 794 |
| 58 | $58 - 28 - 18 = _$ | 12 | 13 | 20 | 14 |
| 59 | Double of 80 + Half of 154 = _ | 244 | 245 | 227 | 237 |
| 60 | $2.21 + 2.433 = _$ | 13.643 | 4.633 | 9.643 | 4.643 |
| 61 | Multiple of 55 = _ | 173, 227, 394 | 168, 223, 387 | 165, 220, 385 | 170, 226, 390 |
| 62 | $48 \times 57 = _$ | 2737 | 2741 | 2736 | 2738 |
| 63 | $292 + 917 + 975 = _$ | 2186 | 2184 | 2174 | 2185 |
| 64 | Half of 5056 = _ | 2530 | 2526 | 2537 | 2528 |
| 65 | $\sqrt{3844} = _$ | 60 | 59 | 68 | 62 |
| 66 | $(42 + 69) \times (33 + 95) = _$ | 14208 | 14215 | 14210 | 14212 |
| 67 | Multiple of 70 = _ | 357, 428, 499 | 354, 425, 426 | 352, 422, 423 | 350, 420, 490 |
| 68 | Multiple of 97 = _ | 196, 487, 876 | 199, 490, 879 | 194, 485, 873 | 202, 494, 882 |
| 69 | Prime Factors of 866 = _ | 2, 433 | 9, 441 | 8, 438 | 3, 434 |
| 70 | 80, 79, 64, 38, 74 Mean = _ | 64 | 76 | 72 | 67 |
| 71 | Remainder of $475 / 39 = _$ | 15 | 7 | 8 | 9 |
| 72 | $238 / 17$ Quotient = _ | 15 | 4 | 14 | 17 |
| 73 | $295 + 64 = _$ | 349 | 368 | 360 | 359 |
| 74 | Find the HCF of 16, 87 = _ | 4 | 2 | 3 | 1 |
| 75 | Double of 91 + Half of 138 = _ | 251 | 257 | 259 | 252 |



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|-----|----------------------------|---------------|------------|-----------|------------|
| 76 | 330 / 6 Quotient = _ | 55 | 57 | 56 | 45 |
| 77 | 874 / 46 Quotient = _ | 23 | 19 | 28 | 29 |
| 78 | Prime Factors of 48 = _ | 2, 2, 2, 2, 3 | 3, 4, 5, 6 | 9, 10, 11 | 6, 8, 9 |
| 79 | 34 x 95 = _ | 3234 | 3232 | 3320 | 3230 |
| 80 | Prime Factors of 135 = _ | 10, 12, 14 | 7, 11 | 4, 5, 7 | 3, 3, 3, 5 |
| 81 | 73 x 95 = _ | 6940 | 6936 | 6935 | 6925 |
| 82 | 20% of 915 = _ | 178 | 183 | 175 | 185 |
| 83 | Cube Root of 29791 = _ | 40 | 31 | 24 | 21 |
| 84 | $\sqrt{1225}$ = _ | 35 | 30 | 25 | 43 |
| 85 | 867 + 777 + 795 = _ | 2349 | 2448 | 2441 | 2439 |
| 86 | 18 : 354 = _ | 8:60 | 3:59 | 9:61 | 4:62 |
| 87 | Cube Root of 59319 = _ | 39 | 31 | 43 | 29 |
| 88 | 6 x 6 x 5 = _ | 170 | 180 | 181 | 184 |
| 89 | 9007 - 675 = _ | 8339 | 8332 | 8334 | 8341 |
| 90 | 48, 27, 72 Mean = _ | 49 | 42 | 55 | 51 |
| 91 | 196 + 419 = _ | 616 | 615 | 617 | 605 |
| 92 | 35 x _ = 105 | 11 | 5 | 12 | 3 |
| 93 | 773 x 5 = _ | 3871 | 3685 | 3867 | 3865 |
| 94 | 656 + 46 - 27 = _ | 676 | 675 | 683 | 678 |
| 95 | 549 + 78 - 32 = _ | 599 | 595 | 596 | 598 |
| 96 | 146 - 87 + 5 = _ | 71 | 64 | 65 | 54 |
| 97 | Remainder of 93 / 8 = _ | 5 | 7 | 6 | 10 |
| 98 | 14 : 49 = _ | 11:11 | 8:15 | 2:7 | 3:14 |
| 99 | 4080 / 5 Quotient = _ | 716 | 816 | 817 | 822 |
| 100 | Find the HCF of 87, 90 = _ | 7 | 10 | 3 | 5 |