Soroban Technology Lab

# Mental Calculation Dan Mental Multiplication / Mental Division (8 min)

| No. | | Name | |
|---|---|---|---|
| Date | | Score | |

## Mental Multiplication (4 min)

| | | | |
|---|---|---|---|
| 1 | 398 × 84 = | 31 | 948 × 590 = |
| 2 | 14 × 620 = | 32 | 850 × 201 = |
| 3 | 730 × 42 = | 33 | 784 × 714 = |
| 4 | 47 × 961 = | 34 | 310 × 846 = |
| 5 | 806 × 12 = | 35 | 165 × 683 = |
| 6 | 69 × 239 = | 36 | 437 × 379 = |
| 7 | 150 × 34 = | 37 | 629 × 458 = |
| 8 | 23 × 509 = | 38 | 273 × 130 = |
| 9 | 506 × 98 = | 39 | 501 × 562 = |
| 10 | 92 × 703 = | 40 | 962 × 927 = |
| 11 | 451 × 65 = | 41 | 251 × 152 = |
| 12 | 72 × 873 = | 42 | 430 × 237 = |
| 13 | 289 × 46 = | 43 | 609 × 541 = |
| 14 | 35 × 157 = | 44 | 976 × 840 = |
| 15 | 617 × 78 = | 45 | 148 × 976 = |
| 16 | 92 × 524 = | 46 | 865 × 483 = |
| 17 | 514 × 97 = | 47 | 592 × 608 = |
| 18 | 18 × 305 = | 48 | 743 × 760 = |
| 19 | 720 × 29 = | 49 | 380 × 219 = |
| 20 | 83 × 730 = | 50 | 217 × 395 = |
| 21 | 208 × 18 = | 51 | 853 × 640 = |
| 22 | 63 × 208 = | 52 | 507 × 582 = |
| 23 | 947 × 89 = | 53 | 916 × 863 = |
| 24 | 51 × 640 = | 54 | 360 × 127 = |
| 25 | 876 × 51 = | 55 | 179 × 930 = |
| 26 | 76 × 947 = | 56 | 745 × 495 = |
| 27 | 102 × 35 = | 57 | 621 × 758 = |
| 28 | 35 × 486 = | 58 | 294 × 379 = |
| 29 | 690 × 72 = | 59 | 830 × 214 = |
| 30 | 49 × 163 = | 60 | 482 × 601 = |

## Mental Division (4 min)

| | | | |
|---|---|---|---|
| 1 | 7,696 ÷ 37 = | 31 | 588,861 ÷ 719 = |
| 2 | 15,470 ÷ 182 = | 32 | 133,588 ÷ 364 = |
| 3 | 47,136 ÷ 96 = | 33 | 58,290 ÷ 201 = |
| 4 | 23,712 ÷ 416 = | 34 | 493,000 ÷ 680 = |
| 5 | 62,530 ÷ 65 = | 35 | 561,827 ÷ 967 = |
| 6 | 37,666 ÷ 509 = | 36 | 64,740 ÷ 498 = |
| 7 | 26,883 ÷ 87 = | 37 | 780,640 ÷ 820 = |
| 8 | 14,950 ÷ 230 = | 38 | 257,992 ÷ 542 = |
| 9 | 10,140 ÷ 78 = | 39 | 454,812 ÷ 753 = |
| 10 | 9,204 ÷ 354 = | 40 | 113,805 ÷ 135 = |
| 11 | 20,910 ÷ 41 = | 41 | 276,474 ÷ 354 = |
| 12 | 30,820 ÷ 670 = | 42 | 837,540 ÷ 891 = |
| 13 | 11,037 ÷ 13 = | 43 | 312,750 ÷ 450 = |
| 14 | 34,504 ÷ 908 = | 44 | 51,354 ÷ 162 = |
| 15 | 18,075 ÷ 25 = | 45 | 226,350 ÷ 503 = |
| 16 | 14,175 ÷ 567 = | 46 | 139,938 ÷ 249 = |
| 17 | 7,811 ÷ 73 = | 47 | 81,536 ÷ 637 = |
| 18 | 39,004 ÷ 398 = | 48 | 179,280 ÷ 720 = |
| 19 | 55,476 ÷ 92 = | 49 | 645,354 ÷ 918 = |
| 20 | 47,040 ÷ 840 = | 50 | 732,336 ÷ 876 = |
| 21 | 21,825 ÷ 25 = | 51 | 171,780 ÷ 420 = |
| 22 | 1,470 ÷ 105 = | 52 | 48,440 ÷ 173 = |
| 23 | 19,992 ÷ 51 = | 53 | 463,804 ÷ 508 = |
| 24 | 41,473 ÷ 619 = | 54 | 507,702 ÷ 849 = |
| 25 | 80,840 ÷ 86 = | 55 | 782,384 ÷ 914 = |
| 26 | 58,016 ÷ 784 = | 56 | 87,630 ÷ 690 = |
| 27 | 9,826 ÷ 34 = | 57 | 499,110 ÷ 786 = |
| 28 | 40,815 ÷ 907 = | 58 | 173,900 ÷ 235 = |
| 29 | 23,562 ÷ 42 = | 59 | 170,502 ÷ 362 = |
| 30 | 6,510 ÷ 210 = | 60 | 56,834 ÷ 157 = |

Soroban Technology Lab

## Mental Calculation Dan Mental Sums (4 min)

| No. | | Name | |
|---|---|---|---|
| Date | | Score | |

| No. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| 1 | 682 | 5,804 | 9,602 | 6,580 | 2,801 |
| 2 | 578 | 7,026 | 561 | 421 | 6,173 |
| 3 | 4,130 | 879 | −1,239 | 7,304 | −748 |
| 4 | 2,057 | 3,762 | 784 | 519 | 3,164 |
| 5 | 941 | 9,310 | 4,397 | 8,076 | 452 |
| 6 | 3,895 | 148 | 856 | 3,842 | −937 |
| 7 | 1,623 | 695 | −3,120 | 953 | 5,089 |
| Sum | | | | | |

| No. | 16 | 17 | 18 | 19 | 20 |
|---|---|---|---|---|---|
| 1 | 275 | 6,724 | 781 | 7,235 | 826 |
| 2 | 6,457 | 592 | 6,403 | 170 | 5,910 |
| 3 | 13,608 | 7,461 | −2,518 | 9,413 | 7,068 |
| 4 | 8,521 | 1,657 | 39,120 | 259 | −12,657 |
| 5 | 914 | 80,215 | 5,396 | 6,398 | 98,503 |
| 6 | 32,860 | 309 | −48,072 | 42,067 | 4,291 |
| 7 | 4,739 | 93,840 | 945 | 84,516 | −374 |
| Sum | | | | | |

| No. | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|
| 1 | 5,097 | 392 | 675 | 9,380 | 1,749 |
| 2 | 971 | 8,420 | 8,310 | 218 | 837 |
| 3 | 6,523 | −583 | 5,702 | −7,069 | 3,946 |
| 4 | 374 | 6,054 | 259 | 4,807 | 613 |
| 5 | 839 | 7,329 | 3,921 | 673 | 2,905 |
| 6 | 2,605 | 178 | 4,836 | 5,412 | 468 |
| 7 | 4,218 | −9,601 | 147 | −156 | 5,072 |
| Sum | | | | | |

| No. | 21 | 22 | 23 | 24 | 25 |
|---|---|---|---|---|---|
| 1 | 89,604 | 8,342 | 8,071 | 381 | 8,290 |
| 2 | 20,561 | 65,109 | 2,584 | 94,275 | 429 |
| 3 | 492 | −7,685 | 96,712 | −793 | 538 |
| 4 | 1,870 | 93,870 | 47,890 | 2,807 | 6,705 |
| 5 | 348 | 264 | 643 | 5,628 | 1,963 |
| 6 | 7,956 | −1,027 | 5,109 | −1,054 | 37,814 |
| 7 | 5,123 | 491 | 356 | 69,310 | 72,156 |
| Sum | | | | | |

| No. | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|
| 1 | 2,036 | 4,513 | 4,801 | 4,980 | 513 |
| 2 | 593 | 8,409 | 7,136 | 172 | 165 |
| 3 | 1,702 | −217 | 947 | −386 | 2,894 |
| 4 | 4,870 | 5,190 | 384 | 2,031 | 4,058 |
| 5 | 761 | 684 | 5,612 | 763 | 749 |
| 6 | 954 | 965 | 6,790 | −5,248 | 3,206 |
| 7 | 8,329 | −7,032 | 253 | 6,597 | 8,371 |
| Sum | | | | | |

| No. | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|
| 1 | 5,274 | 6,743 | 3,851 | 691 | 467 |
| 2 | 162 | 169 | 8,623 | 21,703 | 2,706 |
| 3 | 41,857 | −2,017 | 9,510 | 7,850 | 981 |
| 4 | 9,536 | 8,592 | 794 | 4,928 | 8,324 |
| 5 | 8,021 | 90,245 | 236 | −345 | 37,615 |
| 6 | 30,789 | −371 | 62,948 | 5,469 | 54,290 |
| 7 | 640 | 43,680 | 41,075 | −83,172 | 1,853 |
| Sum | | | | | |

# Answers  Mental Calculation Dan

## Mental Multiplication

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 33,432 | 13 | 13,294 | 25 | 44,676 | 37 | 288,082 | 49 | 83,220 |
| 2 | 8,680 | 14 | 5,495 | 26 | 71,972 | 38 | 35,490 | 50 | 85,715 |
| 3 | 30,660 | 15 | 48,126 | 27 | 3,570 | 39 | 281,562 | 51 | 545,920 |
| 4 | 45,167 | 16 | 48,208 | 28 | 17,010 | 40 | 891,774 | 52 | 295,074 |
| 5 | 9,672 | 17 | 49,858 | 29 | 49,680 | 41 | 38,152 | 53 | 790,508 |
| 6 | 16,491 | 18 | 5,490 | 30 | 7,987 | 42 | 101,910 | 54 | 45,720 |
| 7 | 5,100 | 19 | 20,880 | 31 | 559,320 | 43 | 329,469 | 55 | 166,470 |
| 8 | 11,707 | 20 | 60,590 | 32 | 170,850 | 44 | 819,840 | 56 | 368,775 |
| 9 | 49,588 | 21 | 3,744 | 33 | 559,776 | 45 | 144,448 | 57 | 470,718 |
| 10 | 64,676 | 22 | 13,104 | 34 | 262,260 | 46 | 417,795 | 58 | 111,426 |
| 11 | 29,315 | 23 | 84,283 | 35 | 112,695 | 47 | 359,936 | 59 | 177,620 |
| 12 | 62,856 | 24 | 32,640 | 36 | 165,623 | 48 | 564,680 | 60 | 289,682 |

## Mental Division

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 208 | 13 | 849 | 25 | 940 | 37 | 952 | 49 | 703 |
| 2 | 85 | 14 | 38 | 26 | 74 | 38 | 476 | 50 | 836 |
| 3 | 491 | 15 | 723 | 27 | 289 | 39 | 604 | 51 | 409 |
| 4 | 57 | 16 | 25 | 28 | 45 | 40 | 843 | 52 | 280 |
| 5 | 962 | 17 | 107 | 29 | 561 | 41 | 781 | 53 | 913 |
| 6 | 74 | 18 | 98 | 30 | 31 | 42 | 940 | 54 | 598 |
| 7 | 309 | 19 | 603 | 31 | 819 | 43 | 695 | 55 | 856 |
| 8 | 65 | 20 | 56 | 32 | 367 | 44 | 317 | 56 | 127 |
| 9 | 130 | 21 | 873 | 33 | 290 | 45 | 450 | 57 | 635 |
| 10 | 26 | 22 | 14 | 34 | 725 | 46 | 562 | 58 | 740 |
| 11 | 510 | 23 | 392 | 35 | 581 | 47 | 128 | 59 | 471 |
| 12 | 46 | 24 | 67 | 36 | 130 | 48 | 249 | 60 | 362 |

## Mental Sums

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 13,906 | 7 | 12,189 | 13 | 25,923 | 19 | 150,058 | 25 | 127,895 |
| 2 | 27,624 | 8 | 23,850 | 14 | 8,909 | 20 | 103,567 | 26 | 96,279 |
| 3 | 11,841 | 9 | 13,265 | 15 | 19,956 | 21 | 125,954 | 27 | 147,041 |
| 4 | 27,695 | 10 | 15,590 | 16 | 67,374 | 22 | 159,364 | 28 | 127,037 |
| 5 | 15,994 | 11 | 19,245 | 17 | 190,798 | 23 | 161,365 | 29 | −42,876 |
| 6 | 20,627 | 12 | 12,512 | 18 | 2,055 | 24 | 170,554 | 30 | 106,236 |