# TIER 3 - MIND MATH

1) Forwarding counting 314, 315, 316, . . . . . 322
For ex. : starting from 314 to 322

2) Backward counting 786, 785, 784, . . . . 760
For ex : starting from 786 to 760

3) Forward counting of odd numbers 515, 517, 519, . . . . 535
For ex : starting from 515 to 535

4) Backward counting of odd numbers 911, 909, 907, . . . . 889
For ex : starting from 911 to 889

5) Forward counting of even numbers 418, 420, 422, . . . . . 438
For ex : starting from 418 to 438

6) Backward counting of even numbers 646, 644, 642, . . . . 624
For ex : starting from 646 to 624

7) Forward skip counting by 5s 540, 545, 550, . . . . 600
For ex : starting from 540 to 600

8) Backward skip counting by 5s 815, 810, 805, . . . . 770
For ex : starting from 815 to 770

9) Forward skip counting by 10s 398, 408, 418, . . . . 508
For ex : starting from 398 to 508

10) Backward skip counting by 10s 947, 937, 927, . . . . 807
For ex : starting from 947 to 807

11) Forward skip counting by 9s 215, 224, 233, . . . . 278
For ex : starting from 215 to 278

12) Backward skip counting by 9s 647, 638, 629, . . . . 584
For ex : starting from 647 to 584

13) ~~Backward~~ Forward skip counting by 20s 439, 459, 479, . . . . 579
For ex : starting from 439 to 579

14) Backward skip counting by 20s 716, 696, 676, . . . . 576
For ex : starting from 716 to 576

15) Forward skip counting by 19s 552, 571, 590, . . . . 704
For ex : starting from 552 to 704

16) Backward skip counting by 19s 875, 856, 837, . . . . 742
For ex : starting from 875 to 742

| | | |
|---|---|---|
| 17) 323 + 5 = 328 | 18) 414 + 6 = 420 | 19) 576 + 8 = 584 |
| 20) 815 + 7 = 822 | 21) 70 + 50 = 120 | 22) 300 + 57 = 357 |
| 23) 900 + 84 = 984 | 24) 612 + 9 = 621 | 25) 586 + 19 = 605 |
| 26) 47 + 8 = 55 | 27) 376 + 8 = 384 | 28) 839 + 8 = 847 |
| 29) 65 + 18 = 83 | 30) 293 + 18 = 311 | 31) 754 + 18 = 772 |
| 32) Doubling of 78 = 156 | 33) Doubling of 315 = 630 | 34) Doubling of 465 = 930 |
| 35) 438 - 5 = 433 | 36) 617 - 7 = 610 | 37) 759 - 5 = 754 |
| 38) 70 - 6 = 64 | 39) 340 - 8 = 332 | 40) 920 - 6 = 914 |
| 41) 141 - 6 = 135 | 42) 826 - 7 = 819 | 43) 533 - 8 = 525 |
| 44) 320 - 70 = 250 | 45) 92 - 60 = 32 | 46) 890 - 30 = 860 |
| 47) 56 - 9 = 47 | 48) 413 - 9 = 404 | 49) 574 - 9 = 565 |
| 50) 81 - 19 = 62 | 51) 204 - 19 = 185 | 52) 635 - 19 = 616 |
| 53) 32 - 8 = 24 | 54) 117 - 8 = 109 | 55) 947 - 8 = 939 |
| 56) 75 - 18 = 57 | 57) 362 - 18 = 344 | 58) 735 - 18 = 717 |
| 59) 100 - 37 = 63 | 60) 100 - 60 = 40 | 61) 100 - 84 = 16 |
| 62) 300 - 71 = 229 | 63) 700 - 68 = 632 | 64) 900 - 360 = 540 |
| 65) 93 - [93] = 0 | 66) 142 + [0] = 142 | 67) [85] - 0 = 85 |
| 68) 7 x 8 = 56 | 69) 9 x 5 = 45 | 70) 6 x 11 = 66 |
| 71) 30 x 7 = 210 | 72) 50 x 80 = 4000 | 73) 6 x [0] = 0 |
| 74) 86 x 2 = 172 | 75) 36 x 11 = 396 | 76) 59 x 11 = 649 |
| 77) 42 x 99 = 4158 | 78) 70 x 99 = 6930 | 79) 8 x 99 = 792 |

80) $18 \div 9 = 2$

81) $43 \div 8 = 5\ R3$

82) $59 \div 7 = 8\ R3$

83) $6 \div 8 = 0\ R\ 6$

84) $9 \div 0 = \infty$

85) 79 to vinculum $= \bar{8}\bar{1}$

86) $8\bar{3} = 77$

87) $70^2 = 4900$

88) $65^2 = 4225$

89) $65 \times 4 = 260$

90) $700 \div 4 = 175$

91) 56 cm = 560 mm

92) 17m = 1700 cm

93) 4 kg = 4000 g

94) What is the divisibility check for 6? number must be even and digit sum is 3, 6 or 9

95) What is improper fraction? Numerator > denominator

96) Side of square is 40 cm, what is it's P and A? P = 160cm A = 1600cm²

97) What is irregular polygon? All sides and angles are not equal.

98) What is the name of a polygon with 10 sides? Decagon

99) Name few 3D shapes. Cube, cuboid, cylinder, sphere

100) What is line? line has no starting point and no end point.