

NUMBER SERIES

In a number series, the number changes in accordance with certain specify rule/order. Read the series given in the questions carefully and find out which rule/order the series is following. Questions based on number series are mainly of two types:-

- Type A** - In this type of questions, a place is left blank or is replaced by a question mark.
- Type B** - In the this type of questions, a number which must come at a certain place is replaced by a wrong number. We have to decide which of the alternatives given will come in the place of the wrong number.

Type-A

Some important rules of the questions asked in this type of number series:

I. Arithmetic series :- In arithmetic series the number in two continuous series increase or decrease in a definite order. For example-

Ex. 1. 14, 21, 29, 38, 48, 59, ?
(1) 69 (2) 79 (3) 81 (4) 91 (5) 71

Sol.

14	21	29	38	48	59	?
	+7	+8	+9	+10	+11	+12

Ans. (5)

Ex. 2. 34, 18, 10, 6, 4, 3
(1) 6 (2) 1 (3) 0 (4) 2 (5) 3

Sol.

34	18	10	6	4	3
	-16	-8	-4	-2	-1

Ans. (5)

Geometric series: In geometries series, the next number is obtained by either multiplying or dividing the last one by a definite number. In this type of series there are certain addition/substraction done along with some division or multiplication.

Ex. 1. 4, 9, 26, 105, 524, ?
(1) 1524 (2) 3032 (3) 3144
(4) 3145 (5) 3154

Sol.

4	9	26	105	524	3145
	$\times 2 + 1$	$\times 3 - 1$	$\times 4 + 1$	$\times 5 - 1$	$\times 6 + 1$

$\therefore 524 \times 6 + 1 = 3144 + 1 = 3145$

Ans. (4)

III. Series of squares and cubes: In the series of squares and cubes, the number in a series increases or decreases in squares or cubes and which are generally near to certain square or cube.

Ex. 1. 3, 7, 15, 32, 93
(1) 54 (2) 56 (3) 57 (4) 58 (5) 60

Sol.

3	7	15	32	57	93
	$+ 2^2$	$+ 3^2$	$+ 4^2$	$+ 5^2$	$+ 6^2$

$\therefore 32 + 5^2 = 32 + 25 = 57$

Ans. (3)

Ex. 1. 1, 8, 27, 64, 125, ?
(1) 216 (2) 150 (3) 169
(4) 196 (5) 225

Sol.

1	8	27	64	125	216
1^3	2^3	3^3	4^3	5^3	6^3

$\therefore 6^3 = 216$

Ans. (1)

IV. Miscellaneous Number Series: In the type of miscellaneous number series, the series of numbers can be different. In this number series, numbers can increase/decrease by addition, subtraction, multiplication, division, arithmetic/geometric progression etc. For example-

Ex. 1. 15, 30, 60, 120, ?
(1) 250 (2) 245 (3) 240
(4) 250 (5) 260

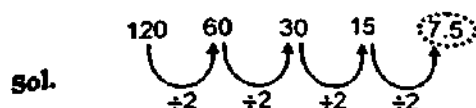
Sol.

15	30	60	120	240
	$\times 2$	$\times 2$	$\times 2$	$\times 2$

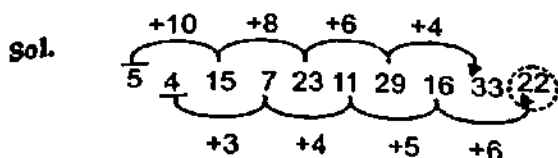
$\therefore 120 \times 2 = 240$

Ans. (3)

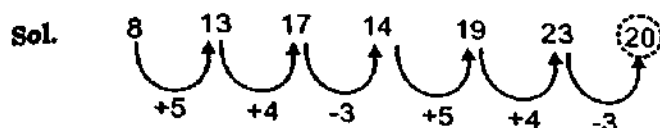
Ex. 2. 120, 60, 30, 15, ?
(1) 7 (2) 7.5 (3) 30 (4) 5.7 (5) 8.5



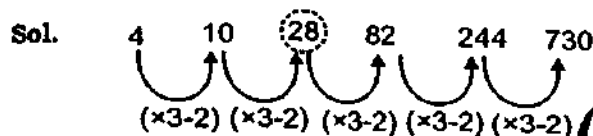
Ex. 3. 5, 4, 15, 7, 23, 11, 29, 16, 33, ?
(1) 22 (2) 11 (3) 34 (4) 29 (5) 32



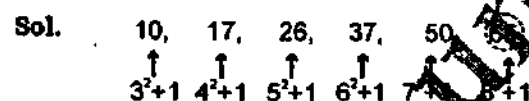
Ex. 4. 8, 13, 17, 14, 19, 23, ?
(1) 22 (2) 24 (3) 25 (4) 20 (5) 18



Ex. 5. 4, 10, ?, 82, 244, 730
(1) 86 (2) 24 (3) 218 (4) 77 (5) 28



10, 17, 26, 37, 50, ?
(1) 67 (2) 50 (3) 65 (4) 77 (5) 37



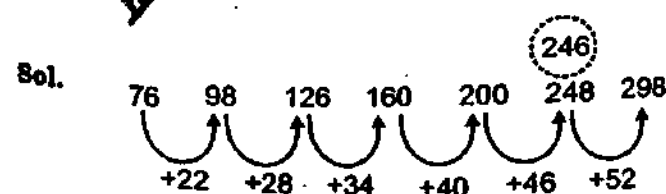
Ans. (3)

Type - A

Some important examples of this type of questions:

Ex. 1. Which number is inappropriate in the series given below?

76, 98, 126, 160, 200, 248, 298
(1) 126 (2) 160 (3) 200
(4) 248 (5) 98



So, 246 will be at the place of 248.

Ans. (4)

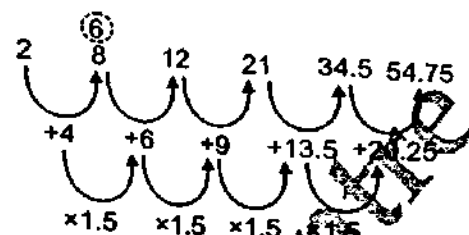
Ex. 2. Which number is inappropriate in the

series given below?

2, 8, 12, 21, 34.5, 54.75

(1) 2 (2) 8 (3) 34.5 (4) 21 (5) 54.75

Sol.



So, 6 will be at the place of 8.

Ans. (2)

Exercise:

Type - A

1. 2, 5, 7, 11, 2, 17
(1) 12 (2) 13 (3) 14
(4) 15 (5) None of these
2. 1, 9, 17, 33, 49, 73, ?
(1) 97 (2) 98 (3) 99
(4) 100 (5) None of these
3. 5, 9, 17, 29, 45, ?
(1) 60 (2) 65 (3) 68
(4) 70 (5) None of these
4. 1, 6, 15, ?, 45, 66, 91
(1) 25 (2) 26 (3) 27
(4) 28 (5) None of these
5. 3, 7, 15, 31, 63, ?
(1) 92 (2) 115 (3) 127
(4) 131 (5) None of these
6. 1, 2, 3, 5, 8, ?
(1) 9 (2) 11 (3) 13
(4) 15 (5) None of these
7. $33\frac{1}{3}$, 20, $14\frac{2}{7}$, ?, $9\frac{1}{11}$
(1) 14 (2) $5\frac{5}{17}$ (3) $5\frac{5}{19}$
(4) $11\frac{1}{19}$ (5) None of these
8. 8, 15, 28, 53, ?
(1) 106 (2) 98 (3) 100
(4) 102 (5) None of these

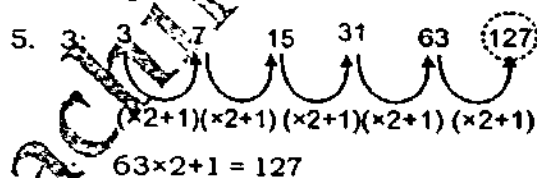
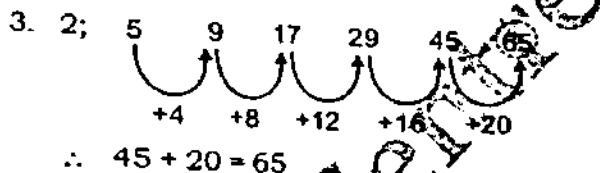
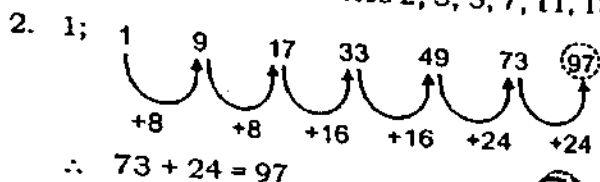
9. 1, 0, 5, 8, 17, 24, 37, ?
 (1) 40 (2) 43 (3) 46
 (4) 48 (5) None of these
10. 87, 90, 84, 88, 81, ?, ?
 (1) 85, 93 (2) 86, 98 (3) 86, 78
 (4) 86, 68 (5) None of these
11. 118, 182, 186, 222, ?
 (1) 318 (2) 266 (3) 258
 (4) 226 (5) None of these
12. 3, 7, 23, 95, ?
 (1) 575 (2) 479 (3) 128
 (4) 62 (5) None of these
13. 3, 28, 4, 65, 5, 126, 6, ?
 (1) 215 (2) 216 (3) 217
 (4) 218 (5) None of these
14. 3691, 6931, 9361, 3691, ?
 (1) 1369 (2) 6931 (3) 1963
 (4) 3961 (5) None of these
15. 81, 192, 375, ?, 1029
 (1) 684 (2) 486 (3) 648
 (4) 468 (5) None of these
16. 1, 2, 6, 33, 49, 174, 210?
 (1) 553 (2) 259 (3) 426
 (4) 274 (5) None of these
17. 1, 5, 11, 49, 239, ?
 (1) 429 (2) 956 (3) 1441
 (4) 1427 (5) None of these
18. 1, 4, 15, 64, 325, ?
 (1) 1630 (2) 2275 (3) 1956
 (4) 1950 (5) None of these
19. 1, 16, 44, 96, 201, ?
 (1) 414 (2) 418 (3) 408
 (4) 416 (5) None of these
20. 3, 9, 31, ?, 651
 (1) 87 (2) 127 (3) 129
 (4) 109 (5) None of these
21. 1, 30, 136, 417, ?, 829
 (1) 856 (2) 828 (3) 834
 (4) 838 (5) None of these
22. 2, 4, 11, 37, ?, 771
 (1) 115 (2) 148 (3) 152
 (4) 118 (5) None of these
23. 2, 9, 30, 105, ?, 2195
 (1) 432 (2) 426 (3) 440
 (4) 436 (5) None of these
24. 2, 40, 180, 552, ?, 1112
 (1) 1110 (2) 1010 (3) 1008
 (4) 1080 (5) None of these
25. 3, 4, 12, 45, 196, ?
 (1) 800 (2) 1004 (3) 996
 (4) 955 (5) None of these
26. 3, 4, 12, 45, ? 1005
 (1) 152 (2) 198 (3) 144
 (4) 192 (5) None of these
27. 3, 4, 16, 75, 864, ?
 (1) 828 (2) 1293 (3) 1945
 (4) 783 (5) None of these
28. 4, 24, 36, ?
 (1) 2 (2) 15 (3) 6
 (4) 9 (5) None of these
29. 4, 6, ?, 30, 90, 315
 (1) 9 (2) 12 (3) 15
 (4) 8 (5) None of these
30. 5, ?, 4, 7.5, 17, 45
 (1) 3.5 (2) 3 (3) 2.5
 (4) 2 (5) None of these
31. 6, 9, 18, 45, ?
 (1) 135 (2) 99 (3) 115
 (4) 138 (5) None of these
32. 6, 9, 11.25, 22.50, 26.50, ?
 (1) 44.50 (2) 66.25 (3) 70.25
 (4) 45 (5) None of these
33. 7, 8, 18, 66, ?, 1938
 (1) 928 (2) 686 (3) 430
 (4) 324 (5) None of these
34. 10, 11, 18, 38, 97.5, 295.5, ?
 (1) 796 (2) 1186 (3) 889.5
 (4) 1037.75 (5) None of these
35. 14, 10, 28, 17, 49, ?
 (1) 21 (2) 8 (3) 10
 (4) 19 (5) None of these
36. 15, 30, ?, 40, 8, 48
 (1) 10 (2) 20 (3) 20
 (4) 10 (5) None of these

37. 64, 36, 22, 15, ?, 9.75
 (1) 11.75 (2) 12.5 (3) 11.5
 (4) 12.25 (5) None of these
38. 81, 41, 42, 64.5, ?, 330
 (1) 131 (2) 118.5 (3) 129
 (4) 105.5 (5) None of these
39. 114, 115, 107, 134, 70, ?
 (1) 140 (2) 35 (3) 195
 (4) 150 (5) None of these

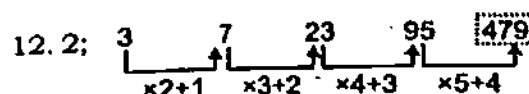
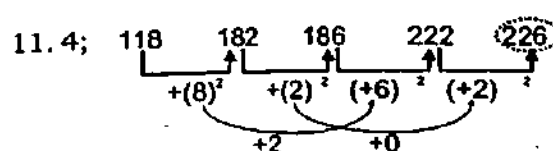
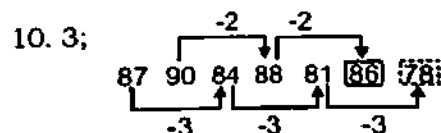
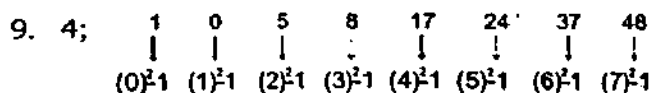
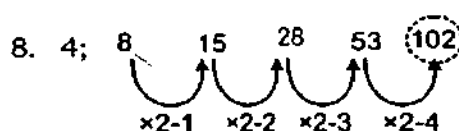
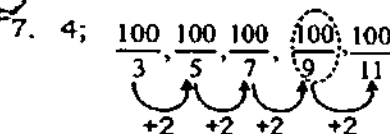
Type - B

40. 2807, 1400, 697, 347, 171, 84, 41, 20
 (1) 697 (2) 347 (3) 371
 (4) 84 (5) 41
41. 828, 412, 204, 100, 48, 24, 9
 (1) 100 (2) 48 (3) 24
 (4) 412 (5) 204
42. 496, 242, 116, 54, 24, 8, 4
 (1) 8 (2) 24 (3) 54
 (4) 116 (5) 24
43. 324, 192, 92, 46, 16, 4, 2
 (1) 4 (2) 16 (3) 46
 (4) 92 (5) 192
44. 24, 36, 81, 180, 540, 1890, 7560
 (1) 540 (2) 1890 (3) 36
 (4) 81 (5) 180
45. 16, 4, 2, 1.5, 1.75, 1.875
 (1) 1.875 (2) 1.75 (3) 1.5
 (4) 2 (5) 4
46. 7, 4, 6, 9, 20, 52.5, 150.5
 (1) 52.5 (2) 9 (3) 20
 (4) 4 (5) 8
47. 7, 9, 16, 25, 41, 68, 107, 173
 (1) 25 (2) 68 (3) 41
 (4) 16 (5) 107
48. 6, 1, 45, 183, 925, 5556
 (1) 225 (2) 183 (3) 45
 (4) 14 (5) 6
49. 3, 2, 3, 6, 12, 37.5, 115.5
 (1) 12 (2) 2 (3) 6
 (4) 3 (5) 37.5
50. 3, 3, 4.5, 9, 27, 67.5, 236.25, 945
 (1) 236.25 (2) 4.5 (3) 9
 (4) 7 (5) 67.5

1. 2; Prime number series 2, 3, 5, 7, 11, 13, 17



6. 3; $1 + 2 = 3, 2 + 3 = 5, 5 + 3 = 8, 8 + 5 = 13$



13. 3; 3 28 4 65 5 126 6 217 7 336 8 504 9 729 10 1008 11 1331 12 1716 13 2163 14 2684 15 3281 16 3964 17 4735 18 5604 19 6581 20 7666 21 8859 22 10160 23 11579 24 13116 25 14781 26 16576 27 18501 28 20556 29 22741 30 25056 31 27501 32 30086 33 32811 34 35676 35 38671 36 41856 37 45131 38 48596 39 52251 40 56096 41 60131 42 64356 43 68771 44 73376 45 78171 46 83156 47 88331 48 93696 49 99251 50 105006 51 110961 52 117126 53 123501 54 130096 55 136901 56 143916 57 151141 58 158576 59 166221 60 174076 61 182141 62 190416 63 198901 64 207596 65 216501 66 225616 67 234941 68 244476 69 254221 70 264176 71 274341 72 284716 73 295301 74 306096 75 317101 76 328316 77 339741 78 351376 79 363221 80 375276 81 387541 82 399916 83 412401 84 425096 85 437901 86 450916 87 464141 88 477576 89 491221 90 505076 91 519141 92 533416 93 547891 94 562596 95 577461 96 592486 97 607671 98 623016 99 638521 100 654186 101 669911 102 685796 103 701841 104 718046 105 734401 106 750916 107 767591 108 784426 109 801421 110 818576 111 835891 112 853366 113 870901 114 888596 115 906451 116 924466 117 942641 118 960976 119 979471 120 998126 121 1016941 122 1035916 123 1055051 124 1074346 125 1093791 126 1113386 127 1133131 128 1153026 129 1173071 130 1193266 131 1213611 132 1234106 133 1254751 134 1275546 135 1296491 136 1317586 137 1338831 138 1360226 139 1381771 140 1403466 141 1425311 142 1447306 143 1469451 144 1491746 145 1514191 146 1536786 147 1559531 148 1582426 149 1605471 150 1628666 151 1651911 152 1675306 153 1698851 154 1722546 155 1746391 156 1770386 157 1794531 158 1818826 159 1843271 160 1867866 161 1892511 162 1917306 163 1942251 164 1967346 165 1992591 166 2017986 167 2043531 168 2069226 169 2095071 170 2121066 171 2147211 172 2173506 173 2200051 174 2226746 175 2253591 176 2280586 177 2307731 178 2335026 179 2362471 180 2390066 181 2417811 182 2445706 183 2473751 184 2501946 185 2530291 186 2558786 187 2587431 188 2616226 189 2645171 190 2674266 191 2703511 192 2732906 193 2762451 194 2792146 195 2821991 196 2851986 197 2882131 198 2912426 199 2942871 200 2973466 201 3004211 202 3035106 203 3066151 204 3097346 205 3128691 206 3160186 207 3191831 208 3223626 209 3255571 210 3287666 211 3319911 212 3352306 213 3384851 214 3417546 215 3450391 216 3483386 217 3516531 218 3549826 219 3583271 220 3616866 221 3650611 222 3684506 223 3718551 224 3752746 225 3787091 226 3821586 227 3856231 228 3891026 229 3925971 230 3961066 231 3996311 232 4031706 233 4067251 234 4102946 235 4138791 236 4174786 237 4210931 238 4247226 239 4283671 240 4320266 241 4356911 242 4393706 243 4430651 244 4467746 245 4504991 246 4542386 247 4579931 248 4617626 249 4655471 250 4693466 251 4731611 252 4769906 253 4808351 254 4846946 255 4885691 256 4924586 257 4963631 258 5002826 259 5042171 260 5081666 261 5121311 262 5161106 263 5201051 264 5241146 265 5281391 266 5321786 267 5362331 268 5403026 269 5443871 270 5484866 271 5525911 272 5567106 273 5608451 274 5649946 275 5691591 276 5733386 277 5775331 278 5817426 279 5859671 280 5902066 281 5944611 282 5987306 283 6030151 284 6073146 285 6116291 286 6159586 287 6203031 288 6246626 289 6290371 290 6334266 291 6378311 292 6422506 293 6466851 294 6511346 295 6555991 296 6600786 297 6645731 298 6690826 299 6736071 300 6781466 301 6827011 302 6872706 303 6918551 304 6964546 305 7010691 306 7056986 307 7103431 308 7149926 309 7196571 310 7243366 311 7290311 312 7337406 313 7384651 314 7432046 315 7479591 316 7527286 317 7575131 318 7623126 319 7671271 320 7719566 321 7767911 322 7816406 323 7865051 324 7913846 325 7962791 326 8011886 327 8061131 328 8110526 329 8160071 330 8209766 331 8259611 332 8309606 333 8359751 334 8409946 335 8460291 336 8510786 337 8561431 338 8612226 339 8663171 340 8714266 341 8765511 342 8816906 343 8868451 344 8919146 345 8970091 346 9021186 347 9072431 348 9123826 349 9175371 350 9227066 351 9278911 352 9330906 353 9383051 354 9435346 355 9487791 356 9540386 357 9593131 358 9646026 359 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14199986 437 14263431 438 14326926 439 14390571 440 14454366 441 14518311 442 14582406 443 14646651 444 14711046 445 14775591 446 14840286 447 14905131 448 14970126 449 15035271 450 15100566 451 15165911 452 15231406 453 15297051 454 15362846 455 15428791 456 15494886 457 15561131 458 15627526 459 15694071 460 15760766 461 15827611 462 15894606 463 15961751 464 16029046 465 16096491 466 16164086 467 16231831 468 16300726 469 16369771 470 16438966 471 16508311 472 16577806 473 16647451 474 16717246 475 16787191 476 16857286 477 16927531 478 16997926 479 17068471 480 17139166 481 17209911 482 17280806 483 17351851 484 17423046 485 17494391 486 17565886 487 17637531 488 17709326 489 17781271 490 17853366 491 17925511 492 18000806 493 18076251 494 18151846 495 18227591 496 18303486 497 18379531 498 18455726 499 18532071 500 18608566 501 18685211 502 18762006 503 18838951 504 18916046 505 18993291 506 19070686 507 19148231 508 19225926 509 19303771 510 19381766 511 19459911 512 19538206 513 19616651 514 19695246 515 19773991 516 19852886 517 19931931 518 20011126 519 20090471 520 20169966 521 20249611 522 20329406 523 20409351 524 20489446 525 20569691 526 20649986 527 20730431 528 20811026 529 20891771 530 20972666 531 21053711 532 21134906 533 21216251 534 21297746 535 21379391 536 21461186 537 21543131 538 21625226 539 21707471 540 21789866 541 21872411 542 21955106 543 22037951 544 22120946 545 22204091 546 22287386 547 22370831 548 22454426 549 22538171 550 22622066 551 22706111 552 22790306 553 22874651 554 22959146 555 23043791 556 23128586 557 23213531 558 23298726 559 23384071 560 23469566 561 23555211 562 23641006 563 23726951 564 23813046 565 23899291 566 23985686 567 24072231 568 24158926 569 24245771 570 24332766 571 24419911 572 24507206 573 24594651 574 24682246 575 24769991 576 24857886 577 24945931 578 25034126 579 25122471 580 25210966 581 25299611 582 25388406 583 25477351 584 25566446 585 25655691 586 25745086 587 25834631 588 25924326 589 26014171 590 26104166 591 26194311 592 26284606 593 26375051 594 26465646 595 26556391 596 26647286 597 26738331 598 26829526 599 26920871 600 27012366 601 27103911 602 27195606 603 27287451 604 27379446 605 27471591 606 27563886 607 27656331 608 27748926 609 27841671 610 27934566 611 28027611 612 28120806 613 28214151 614 28307646 615 28401291 616 28495086 617 28589031 618 28683126 619 28777371 620 28871766 621 28966311 622 29060906 623 29155651 624 29250546 625 29345591 626 29440786 627 29536131 628 29631626 629 29727271 630 29823066 631 29918911 632 30014906 633 30111051 634 30207346 635 30303791 636 30400386 637 30497131 638 30594026 639 30691071 640 30788266 641 30885611 642 30983106 643 31080751 644 31178546 645 31276491 646 31374586 647 31472831 648 31571226 649 31669771 650 31768466 651 31867311 652 31966306 653 32065451 654 32164746 655 32264191 656 32363786 657 32463531 658 32563426 659 32663471 660 32763666 661 32863911 662 32964306 663 33064851 664 33165546 665 33266391 666 33367386 667 33468531 668 33569826 669 33671271 670 33772866 671 33874611 672 33976506 673 34078551 674 34180746 675 34283091 676 34385586 677 34488231 678 34591026 679 34693971 680 34797066 681 34900311 682 35003706 683 35107251 684 35210946 685 35314791 686 35418786 687 35522931 688 35627226 689 35731671 690 35836266 691 35940911 692 36045706 693 36150651 694 36255746 695 36360991 696 36466386 697 36571931 698 36677626 699 36783471 700 36889466 701 36995611 702 37101906 703 37208351 704 37314946 705 37421691 706 37528586 707 37635631 708 37742826 709 37850171 710 37957666 711 38065311 712 38173106 713 38281051 714 38389146 715 38497391 716 38605786 717 38714331 718 38823026 719 38931871 720 39040866 721 39150011 722 39259306 723 39368751 724 39478346 725 39588091 726 39697986 727 39808031 728 39918226 729 40028571 730 40139066 731 40249711 732 40360506 733 40471451 734 40582546 735 40693791 736 40805186 737 40916731 738 41028426 739 41140271 740 41252266 741 41364411 742 41476706 743 41589151 744 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60943926 899 61080771 900 61217766 901 61354911 902 61492206 903 61629651 904 61767246 905 61904991 906 62042886 907 62180931 908 62319126 909 62457471 910 62595966 911 62734611 912 62873406 913 63012351 914 63151446 915 63290691 916 63430086 917 63569631 918 63709326 919 63849171 920 63989166 921 64129311 922 64269606 923 64410051 924 64550646 925 64691391 926 64832286 927 64973331 928 65114526 929 65255871 930 65397366 931 65538911 932 65680606 933 65822451 934 65964446 935 66106591 936 66248886 937 66391331 938 66533926 939 66676671 940 66819566 941 66962611 942 67105806 943 67249151 944 67392646 945 67536291 946 67680086 947 67824031 948 67968126 949 68112371 950 68256766 951 68401311 952 68545906 953 68690651 954 68835546 955 68980591 956 69125786 957 69271131 958 69416626 959 69562271 960 69708066 961 69854011 962 69999106 963 70144351 964 70289746 965 70435291 966 70580986 967 70726831 968 70872826 969 71018971 970 71165266 971 71311711 972 71458306 973 71605051 974 71751946 975 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14

33.4; 7 8 18 66 (324) 1938
 $\times 2-6$ $\times 3-6$ $\times 4-6$ $\times 5-6$ $\times 6-6$

34.4; 10 11 18 38 97.5 295.5 (1037.75)
 $\times 1+1$ $\times 1.5+1.5$ $\times 2+2$ $\times 2.5+2.5$ $\times 3+3$ $\times 3.5+3.5$

35.5; 14 10 28 17 49 (27.5)
 $\times .5+3$ $\times 3-2$ $\times .5+3$ $\times 3-2$ $\times .5+3$

36.1; 15 30 (10) 40 8 48
 $\times 2$ $\times \frac{1}{3}$ $\times 4$ $\times \frac{1}{5}$ $\times 6$

37.3; 64 36 22 15 (11.5) 9.75
 -28 -14 -7 -3.5 -1.75

38.1; 81 41 42 64.5 (131) 330
 $\times 0.5+0.5$ $\times 1+1$ $\times 1.5+1.5$ $\times 2+2$ $\times 2.5+2.5$

39.1

40.2;

348
 2807 1400 697 (347) 171 84 41 20
 $-7+2$ $-6+2$ $-5+2$ $-4+2$ $-3+2$ $-2+2$ $-1+2$

41.3; 828 412 204 100 40 (24) 0
 -4×0.5 -4×0.5 -4×0.5 -4×0.5 -4×0.5 -4×0.5

42.1 8.4 4.4

45.2; 16 4 2 1.5 (1.75) 1.875
 $\times 0.25$ $\times 0.5$ $\times 0.75$ $\times 1$ $\times 1.25$

46.5 47.2 48.2 49.1 50.4