

Problem Solving

Example 1

The factors of 12 are 1, 2, 3, 4, 6, and 12.

The factors of 15 are 1, 3, 5, and 15.

The factors of 18 are 1, 2, 3, 6, 9, and 18.

The factors of 20 are 1, 2, 4, 5, 10, and 20.

The factors of 24 are 1, 2, 3, 4, 6, 8, 12, and 24.

The factors of 30 are 1, 2, 3, 5, 6, 10, 15, and 30.

The factors of 36 are 1, 2, 3, 4, 6, 9, 12, 18, and 36.

The factors of 40 are 1, 2, 4, 5, 8, 10, 20, and 40.

The factors of 45 are 1, 3, 5, 9, 15, and 45.

The factors of 48 are 1, 2, 3, 4, 6, 8, 12, 16, 24, and 48.

The factors of 50 are 1, 2, 5, 10, 25, and 50.

The factors of 54 are 1, 2, 3, 6, 9, 18, 27, and 54.

The factors of 60 are 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, and 60.

The factors of 63 are 1, 3, 7, 9, 21, and 63.

The factors of 64 are 1, 2, 4, 8, 16, 32, and 64.

The factors of 70 are 1, 2, 5, 7, 14, and 70.

The factors of 72 are 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 36, and 72.

The factors of 75 are 1, 3, 5, 15, 25, and 75.

The factors of 80 are 1, 2, 4, 5, 8, 10, 16, 20, 40, and 80.

The factors of 81 are 1, 3, 9, 27, and 81.

The factors of 84 are 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, and 84.

The factors of 90 are 1, 2, 3, 5, 6, 9, 10, 15, 18, 30, 45, and 90.

The factors of 96 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, and 96.

The factors of 100 are 1, 2, 4, 5, 10, 20, 25, 50, and 100.

The factors of 105 are 1, 3, 5, 7, 15, 21, 35, and 105.

The factors of 108 are 1, 2, 3, 4, 6, 9, 12, 18, 27, 36, 54, and 108.

The factors of 110 are 1, 2, 5, 11, 22, 55, and 110.

The factors of 112 are 1, 2, 4, 7, 8, 14, 16, 28, 56, and 112.

The factors of 117 are 1, 3, 9, 13, 39, and 117.

The factors of 120 are 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 24, 30, 40, 60, and 120.

The factors of 125 are 1, 5, 25, and 125.

The factors of 126 are 1, 2, 3, 6, 7, 9, 14, 18, 21, 42, 63, and 126.

The factors of 128 are 1, 2, 4, 8, 16, 32, 64, and 128.

The factors of 130 are 1, 2, 5, 10, 13, 26, 65, and 130.

The factors of 132 are 1, 2, 3, 4, 6, 11, 22, 33, 44, 66, and 132.

The factors of 135 are 1, 3, 5, 9, 27, 45, and 135.

The factors of 140 are 1, 2, 4, 5, 7, 10, 14, 20, 28, 35, 70, and 140.

The factors of 144 are 1, 2, 3, 4, 6, 8, 9, 12, 16, 18, 24, 36, 48, 72, and 144.

The factors of 150 are 1, 2, 3, 5, 6, 10, 15, 25, 30, 50, and 150.

The factors of 156 are 1, 2, 3, 4, 6, 12, 13, 26, 39, 52, 78, and 156.

The factors of 160 are 1, 2, 4, 5, 8, 10, 16, 20, 32, 40, 80, and 160.

The factors of 162 are 1, 2, 3, 6, 9, 18, 27, 54, and 162.

The factors of 165 are 1, 3, 5, 11, 33, 55, and 165.

The factors of 168 are 1, 2, 3, 4, 6, 7, 8, 12, 14, 21, 24, 28, 42, 56, 84, and 168.

The factors of 170 are 1, 2, 5, 10, 17, 34, 85, and 170.

The factors of 171 are 1, 3, 9, 19, 57, and 171.

The factors of 175 are 1, 5, 7, 25, 35, 49, and 175.

The factors of 180 are 1, 2, 3, 4, 5, 6, 9, 10, 12, 15, 18, 20, 30, 36, 45, 60, 90, and 180.

The factors of 182 are 1, 2, 7, 13, 14, 26, 91, and 182.

The factors of 184 are 1, 2, 4, 8, 23, 46, 92, and 184.

The factors of 186 are 1, 2, 3, 6, 31, 62, 93, and 186.

The factors of 189 are 1, 3, 7, 9, 27, 63, and 189.

The factors of 190 are 1, 2, 5, 10, 19, 38, 95, and 190.

The factors of 192 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 96, and 192.

The factors of 195 are 1, 3, 5, 13, 39, 65, and 195.

The factors of 200 are 1, 2, 4, 5, 8, 10, 20, 25, 40, 50, 100, and 200.

The factors of 204 are 1, 2, 3, 4, 6, 12, 17, 34, 51, 68, 102, and 204.

The factors of 207 are 1, 3, 9, 23, 69, and 207.

The factors of 210 are 1, 2, 3, 5, 6, 7, 10, 14, 15, 21, 30, 35, 42, 70, 105, and 210.

The factors of 216 are 1, 2, 3, 4, 6, 8, 9, 12, 18, 24, 27, 36, 54, 72, 108, and 216.

The factors of 220 are 1, 2, 4, 5, 10, 11, 22, 44, 55, 110, and 220.

The factors of 225 are 1, 3, 5, 9, 15, 25, 45, and 225.

The factors of 230 are 1, 2, 5, 10, 23, 46, 115, and 230.

The factors of 231 are 1, 3, 7, 11, 21, 33, 77, and 231.

The factors of 232 are 1, 2, 4, 8, 29, 58, 116, and 232.

The factors of 234 are 1, 2, 3, 6, 9, 13, 18, 26, 36, 39, 54, 78, 117, and 234.

The factors of 240 are 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 16, 20, 24, 30, 40, 48, 60, 80, 120, and 240.

The factors of 243 are 1, 3, 9, 27, 81, and 243.

The factors of 246 are 1, 2, 3, 6, 41, 82, 123, and 246.

The factors of 250 are 1, 2, 5, 10, 25, 50, 125, and 250.

The factors of 252 are 1, 2, 3, 4, 6, 7, 9, 12, 14, 18, 21, 28, 36, 42, 63, 84, 126, and 252.

The factors of 255 are 1, 3, 5, 15, 17, 51, 85, and 255.

The factors of 256 are 1, 2, 4, 8, 16, 32, 64, 128, and 256.

The factors of 260 are 1, 2, 4, 5, 10, 13, 20, 26, 52, 65, 130, and 260.

The factors of 264 are 1, 2, 3, 4, 6, 8, 11, 12, 16, 22, 24, 33, 44, 66, 88, 132, and 264.

The factors of 270 are 1, 2, 3, 5, 6, 9, 10, 15, 18, 27, 30, 45, 54, 90, 135, and 270.

The factors of 272 are 1, 2, 4, 8, 17, 34, 68, and 272.

The factors of 273 are 1, 3, 7, 13, 21, 39, 91, and 273.

The factors of 276 are 1, 2, 3, 4, 6, 12, 23, 46, 69, 92, 138, and 276.

The factors of 280 are 1, 2, 4, 5, 7, 8, 10, 14, 16, 20, 28, 35, 40, 56, 70, 140, and 280.

The factors of 282 are 1, 2, 3, 6, 47, 94, 141, and 282.

The factors of 285 are 1, 3, 5, 15, 19, 57, 285, and 285.

The factors of 288 are 1, 2, 3, 4, 6, 8, 9, 12, 16, 18, 24, 32, 36, 48, 72, 144, and 288.

The factors of 290 are 1, 2, 5, 10, 29, 58, 145, and 290.

The factors of 292 are 1, 2, 4, 73, 146, and 292.

The factors of 294 are 1, 2, 3, 6, 7, 14, 21, 42, 49, 98, 147, and 294.

The factors of 297 are 1, 3, 9, 33, 99, and 297.

The factors of 300 are 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 25, 30, 40, 50, 60, 75, 100, 150, and 300.

The factors of 302 are 1, 2, 151, and 302.

The factors of 303 are 1, 3, 101, and 303.

The factors of 304 are 1, 2, 4, 8, 38, 76, 190, and 304.

The factors of 306 are 1, 2, 3, 6, 9, 17, 18, 27, 34, 51, 68, 102, and 306.

The factors of 308 are 1, 2, 4, 7, 11, 14, 22, 28, 44, 77, 154, and 308.

The factors of 310 are 1, 2, 5, 10, 31, 62, 155, and 310.

The factors of 312 are 1, 2, 3, 4, 6, 8, 12, 13, 16, 24, 26, 39, 52, 78, 104, 156, and 312.

The factors of 315 are 1, 3, 5, 7, 9, 15, 21, 35, 45, 63, 105, and 315.

The factors of 316 are 1, 2, 4, 79, 158, and 316.

The factors of 318 are 1, 2, 3, 6, 53, 106, 159, and 318.

The factors of 320 are 1, 2, 4, 5, 8, 10, 16, 20, 32, 40, 64, 80, 160, and 320.

The factors of 322 are 1, 2, 7, 14, 23, 46, 161, and 322.

The factors of 324 are 1, 2, 3, 4, 6, 9, 12, 18, 27, 36, 54, 72, 108, 162, and 324.

The factors of 325 are 1, 5, 13, 25, 65, 169, and 325.

The factors of 326 are 1, 2, 163, and 326.

The factors of 327 are 1, 3, 109, and 327.

The factors of 328 are 1, 2, 4, 82, 164, and 328.

The factors of 330 are 1, 2, 3, 5, 6, 10, 11, 15, 22, 30, 33, 55, 66, 110, 165, and 330.

The factors of 332 are 1, 2, 4, 83, 166, and 332.

The factors of 333 are 1, 3, 9, 37, 111, and 333.

The factors of 334 are 1, 2, 167, and 334.

The factors of 336 are 1, 2, 3, 4, 6, 7, 8, 12, 14, 16, 21, 24, 28, 42, 48, 56, 84, 96, 112, 168, and 336.

The factors of 338 are 1, 2, 13, 26, 169, and 338.

The factors of 340 are 1, 2, 4, 5, 10, 17, 34, 68, 170, and 340.

The factors of 342 are 1, 2, 3, 6, 9, 18, 19, 36, 57, 76, 114, 171, 228, and 342.

The factors of 344 are 1, 2, 4, 86, 172, and 344.

The factors of 345 are 1, 3, 5, 15, 23, 69, 115, and 345.

The factors of 346 are 1, 2, 173, and 346.

The factors of 348 are 1, 2, 3, 4, 6, 8, 12, 14, 16, 21, 24, 28, 42, 48, 56, 84, 96, 112, 168, and 348.

The factors of 350 are 1, 2, 5, 7, 10, 14, 25, 35, 50, 70, 175, and 350.

The factors of 352 are 1, 2, 4, 8, 16, 22, 44, 88, 176, and 352.

The factors of 354 are 1, 2, 3, 6, 59, 118, 177, and 354.

The factors of 357 are 1, 3, 7, 17, 21, 51, 119, and 357.

The factors of 358 are 1, 2, 179, and 358.

The factors of 360 are 1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 15, 16, 18, 20, 24, 30, 36, 40, 45, 48, 60, 72, 80, 90, 120, 144, 180, 216, 240, 360, and 360.

The factors of 362 are 1, 2, 181, and 362.

The factors of 363 are 1, 3, 11, 33, 121, and 363.

The factors of 364 are 1, 2, 4, 7, 13, 14, 28, 52, 91, 182, 273, and 364.

The factors of 366 are 1, 2, 3, 6, 61, 122, 183, and 366.

The factors of 368 are 1, 2, 4, 8, 46, 92, 232, and 368.

The factors of 369 are 1, 3, 9, 41, 123, and 369.

The factors of 370 are 1, 2, 5, 10, 37, 74, 185, and 370.

The factors of 372 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 29, 36, 48, 76, 116, 174, 232, 348, and 372.

The factors of 375 are 1, 3, 5, 15, 25, 75, 125, and 375.

The factors of 376 are 1, 2, 4, 8, 47, 94, 188, and 376.

The factors of 378 are 1, 2, 3, 6, 7, 9, 14, 18, 21, 27, 42, 54, 63, 84, 126, 189, 252, 378, and 378.

The factors of 379 are 1, 379, and 379.

The factors of 380 are 1, 2, 4, 5, 10, 19, 38, 76, 95, 190, and 380.

The factors of 382 are 1, 2, 191, and 382.

The factors of 384 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 32, 48, 64, 96, 128, 192, 256, 384, and 384.

The factors of 386 are 1, 2, 193, and 386.

The factors of 387 are 1, 3, 9, 43, 129, and 387.

The factors of 388 are 1, 2, 4, 97, 194, and 388.

The factors of 390 are 1, 2, 3, 5, 6, 10, 13, 15, 26, 30, 39, 65, 78, 130, 195, and 390.

The factors of 392 are 1, 2, 4, 7, 8, 14, 16, 28, 56, 98, 196, and 392.

The factors of 394 are 1, 2, 197, and 394.

The factors of 396 are 1, 2, 3, 4, 6, 9, 11, 12, 18, 22, 36, 44, 66, 99, 132, 198, 297, 396, and 396.

The factors of 398 are 1, 2, 199, and 398.

The factors of 400 are 1, 2, 4, 5, 8, 10, 16, 20, 25, 40, 50, 80, 100, 200, and 400.

The factors of 402 are 1, 2, 3, 6, 67, 134, 201, and 402.

The factors of 403 are 1, 13, 31, 403, and 403.

The factors of 404 are 1, 2, 4, 101, 202, and 404.

The factors of 405 are 1, 3, 5, 9, 15, 27, 45, 81, 135, 225, 405, and 405.

The factors of 406 are 1, 2, 7, 14, 29, 58, 203, and 406.

The factors of 408 are 1, 2, 3, 4, 6, 8, 12, 17, 24, 34, 68, 102, 136, 204, 272, 408, and 408.

The factors of 409 are 1, 409, and 409.

The factors of 410 are 1, 2, 5, 10, 41, 82, 205, and 410.

The factors of 412 are 1, 2, 4, 103, 206, and 412.

The factors of 414 are 1, 2, 3, 6, 69, 138, 207, and 414.

The factors of 416 are 1, 2, 4, 8, 52, 104, 208, and 416.

The factors of 417 are 1, 3, 139, and 417.

The factors of 418 are 1, 2, 11, 22, 19, 38, 209, and 418.

The factors of 420 are 1, 2, 3, 4, 5, 6, 7, 10, 12, 14, 15, 20, 21, 28, 30, 35, 42, 60, 84, 105, 140, 168, 210, 280, 420, and 420.

The factors of 422 are 1, 2, 211, and 422.

The factors of 423 are 1, 3, 9, 47, 141, and 423.

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The factors of 474 are 1, 2, 3, 6, 79, 158, 237, and 474.

The factors of 476 are 1, 2, 4, 7, 14, 34, 68, 119, 238, 357, and 476.

The factors of 477 are 1, 3, 9, 53, 159, and 477.

The factors of 478 are 1, 2, 239, and 478.

The factors of 479 are 1, 479, and 479.

The factors of 480 are 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 16, 20, 24, 30, 40, 48, 60, 80, 96, 120, 160, 240, 320, 480, and 480.

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The factors of 502 are 1, 2, 251, and 502.

The factors of 504 are 1, 2, 3, 4, 6, 7, 8, 12, 14, 16, 21, 24, 28, 42, 56, 84, 112, 168, 224, 336, 504, and 504.

The factors of 506 are 1, 2, 11, 22, 23, 46, 103, 206, 2273, and 506.

The factors of 508 are 1, 2, 4, 127, 254, and 508.

The factors of 509 are 1, 509, and 509.

The factors of 510 are 1, 2, 3, 5, 6, 10, 17, 30, 34, 51, 68, 102, 170, 255, 510, and 510.

The factors of 512 are 1, 2, 4, 8, 16, 32, 64, 128, 256, 512, and 512.

The factors of 514 are 1, 2, 257, and 514.

The factors of 516 are 1, 2, 3, 4, 6, 8, 12, 17, 24, 34, 68, 102, 136, 204, 272, 408, and 516.

The factors of 518 are 1, 2, 7, 14, 37, 74, 259, and 518.

The factors of 519 are 1, 3, 173, and 519.

The factors of 520 are 1, 2, 4, 5, 8, 10, 13, 20, 26, 40, 52, 65, 104, 130, 260, and 520.

The factors of 522 are 1, 2, 3, 6, 87, 174, 261, and 522.

The factors of 524 are 1, 2, 4, 131, 262, and 524.

The factors of 525 are 1, 3, 5, 7, 15, 21, 35, 49, 105, 147, 245, 343, 525, and 525.

The factors of 526 are 1, 2, 263, and 526.

The factors of 527 are 1, 17, 31, 527, and 527.

The factors of 528 are 1, 2, 3, 4, 6, 8, 11, 12, 16, 22, 24, 33, 44, 66, 88, 132, 176, 264, 352, 528, and 528.

The factors of 530 are 1, 2, 5, 10, 53, 106, 265, and 530.

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The factors of 536 are 1, 2, 4, 134, 268, and 536.

The factors of 537 are 1, 3, 179, and 537.

The factors of 538 are 1, 2, 269, and 538.

The factors of 539 are 1, 7, 11, 77, 143, 1001, and 539.

The factors of 540 are 1, 2, 3, 4, 5, 6, 9, 10, 12, 15, 18, 20, 27, 30, 36, 45, 54, 60, 81, 90, 108, 135, 162, 180, 270, 540, and 540.

The factors of 542 are 1, 2, 271, and 542.

The factors of 544 are 1, 2, 4, 8, 67, 134, 268, and 544.

The factors of 546 are 1, 2, 3, 6, 91, 182, 273, and 546.

The factors of 548 are 1, 2, 4, 137, 274, and 548.

The factors of 549 are 1, 3, 183, and 549.

The factors of 550 are 1, 2, 5, 10, 11, 22, 55, 110, 275, 550, and 550.

The factors of 552 are 1, 2, 3, 4, 6, 8, 12, 16, 24, 33, 48, 66, 99, 132, 198, 264, 396, 552, and 552.

The factors of 554 are 1, 2, 277, and 554.

The factors of 556 are 1, 2, 4, 139, 278, and 556.

The factors of 558 are 1, 2, 3, 6, 93, 186, 279, and 558.

The factors of 560 are 1, 2, 4, 5, 7, 8, 10, 14, 16, 20, 28, 35, 40, 56, 70, 80, 112, 140, 160, 224, 280, 392, 560, and 560.

The factors of 562 are 1, 2, 281, and

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N Noddings



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