

Study Guides

Fraction Operations

Study Guide

FRACTION OPERATIONS

Just like with whole numbers, we can add, subtract, and multiply with fractions.

Least Common Denominator

The least common denominator (LCD) is the smallest number that can be used as a common denominator for two or more fractions.

We need to find the least common denominator (LCD) when adding or subtracting fractions with different denominators. Fractions need a common denominator to be combined, so finding the LCD allows us to create equivalent fractions, making it easier to add or subtract them easily.

Finding Least Common Multiple (LCM)

LCM is the smallest number that two or more numbers have in common.

Remember, LCM is a number that can be divided by each of the numbers being compared without a remainder.

Find the LCM of 8 and 12

List the multiples of 8 and 12, using what you know about the multiples and find the first one in common.

8: 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96, 104, 112, 120, 128, 136, 144, 152, 160, 168, 176, 184, 192, 200, 208, 216, 224, 232, 240, 248, 256, 264, 272, 280, 288, 296, 304, 312, 320, 328, 336, 344, 352, 360, 368, 376, 384, 392, 400, 408, 416, 424, 432, 440, 448, 456, 464, 472, 480, 488, 496, 504, 512, 520, 528, 536, 544, 552, 560, 568, 576, 584, 592, 600, 608, 616, 624, 632, 640, 648, 656, 664, 672, 680, 688, 696, 704, 712, 720, 728, 736, 744, 752, 760, 768, 776, 784, 792, 800, 808, 816, 824, 832, 840, 848, 856, 864, 872, 880, 888, 896, 904, 912, 920, 928, 936, 944, 952, 960, 968, 976, 984, 992, 1000

12: 12, 24, 36, 48, 60, 72, 84, 96, 108, 120, 132, 144, 156, 168, 180, 192, 204, 216, 228, 240, 252, 264, 276, 288, 300, 312, 324, 336, 348, 360, 372, 384, 396, 408, 420, 432, 444, 456, 468, 480, 492, 504, 516, 528, 540, 552, 564, 576, 588, 600, 612, 624, 636, 648, 660, 672, 684, 696, 708, 720, 732, 744, 756, 768, 780, 792, 804, 816, 828, 840, 852, 864, 876, 888, 900, 912, 924, 936, 948, 960, 972, 984, 996, 1000

The LCM of 8 and 12 is 24.

Finding Least Common Denominator

Step 1: Find the LCM of both denominators.

8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 148, 152, 156, 160, 164, 168, 172, 176, 180, 184, 188, 192, 196, 200, 204, 208, 212, 216, 220, 224, 228, 232, 236, 240, 244, 248, 252, 256, 260, 264, 268, 272, 276, 280, 284, 288, 292, 296, 300, 304, 308, 312, 316, 320, 324, 328, 332, 336, 340, 344, 348, 352, 356, 360, 364, 368, 372, 376, 380, 384, 388, 392, 396, 400, 404, 408, 412, 416, 420, 424, 428, 432, 436, 440, 444, 448, 452, 456, 460, 464, 468, 472, 476, 480, 484, 488, 492, 496, 500, 504, 508, 512, 516, 520, 524, 528, 532, 536, 540, 544, 548, 552, 556, 560, 564, 568, 572, 576, 580, 584, 588, 592, 596, 600, 604, 608, 612, 616, 620, 624, 628, 632, 636, 640, 644, 648, 652, 656, 660, 664, 668, 672, 676, 680, 684, 688, 692, 696, 700, 704, 708, 712, 716, 720, 724, 728, 732, 736, 740, 744, 748, 752, 756, 760, 764, 768, 772, 776, 780, 784, 788, 792, 796, 800, 804, 808, 812, 816, 820, 824, 828, 832, 836, 840, 844, 848, 852, 856, 860, 864, 868, 872, 876, 880, 884, 888, 892, 896, 900, 904, 908, 912, 916, 920, 924, 928, 932, 936, 940, 944, 948, 952, 956, 960, 964, 968, 972, 976, 980, 984, 988, 992, 996, 1000

Step 2: Use the LCM as a guide to create equivalent fractions with the same denominators.

$\frac{1}{8} = \frac{3}{24}$ $\frac{1}{12} = \frac{2}{24}$ $\frac{2}{8} = \frac{6}{24}$ $\frac{3}{12} = \frac{6}{24}$

Now you can add or subtract the fractions.

Adding & Subtracting Fractions with Like Denominators

When adding fractions with the same denominator, just add the numerators.

$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$

Remember to reduce your final answer to simplest form!

Adding & Subtracting Fractions with Unlike Denominators

$\frac{1}{2} + \frac{1}{3} =$

Step 1: Find the least common multiple for both denominators.

2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Step 2: Use the LCM to create a common denominator for both fractions.

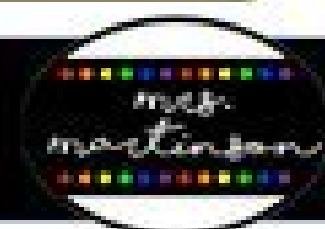
$\frac{1}{2} = \frac{6}{12}$ $\frac{1}{3} = \frac{4}{12}$ $\frac{2}{4} = \frac{6}{12}$ $\frac{3}{6} = \frac{6}{12}$

Step 3: Now you are ready to add or subtract the numerators since the denominators are the same.

$\frac{1}{2} + \frac{1}{3} = \frac{6}{12} + \frac{4}{12} = \frac{10}{12}$

Remember to reduce your final answer to simplest form!

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S Marginson



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