

MATH SKETCH NOTES

REVIEW: ADD *and* SUBTRACT FRACTIONS 15 Set 6

ADDITION

$$\frac{2}{3} = \frac{12}{18}$$

$$\frac{1}{6} = \frac{3}{18}$$

$$\frac{15}{18} = \frac{5}{6}$$

AREA
MODEL
REVIEW

SUBTRACTION

$$\frac{3}{4} = \frac{6}{8}$$

$$\frac{1}{2} = \frac{4}{8}$$

$$\frac{2}{8} = \frac{1}{4}$$

SIMPLEST
FORM

① LCD $\begin{cases} 3: 3, 6, 9, (12) \\ 4: 4, 8, (12), 16 \end{cases}$

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12} \leftarrow \text{LCD}$$

$$+ \frac{3}{4} \times \frac{3}{3} = \frac{9}{12} \leftarrow \text{LCD}$$

$$\textcircled{4} \frac{17}{12} = 12 \overline{)17} \begin{matrix} 1 \\ R5 \end{matrix} = 1 \frac{5}{12}$$

STANDARD
ALGORITHM

① LCD $\begin{cases} 5: 5, 10, 15, (20) \\ 4: 4, 8, 12, 16, (20) \end{cases}$

$$\frac{4}{5} \times \frac{4}{4} = \frac{16}{20} \leftarrow \text{LCD}$$

$$- \frac{2}{4} \times \frac{5}{5} = \frac{10}{20} \leftarrow \text{LCD}$$

$$\textcircled{4} \text{GCF } 2 \begin{array}{r} 6 \ 20 \\ 3 \ 10 \end{array} \quad \frac{6}{20} \div \frac{2}{20} = \frac{3}{10}$$

① Find the least common denominator (LCD)

② Multiply to find equivalent fractions with the LCD.

③ Add/Subtract the numerators. The denominator stays the same.

GRADE 6

STEP-BY-STEP POWERPOINT

REVIEW: ADD and SUBTRACT FRACTIONS 15

ADDITION

$$\frac{2}{3} + \frac{4}{6} = \frac{12}{8}$$

AREA
MODEL
REVIEW

SUBTRACTION

$$\frac{3}{4} - \frac{1}{8} = \frac{6}{8}$$

$$\frac{1}{2} - \frac{1}{8} = \frac{4}{8}$$

$$\frac{2}{8} - \frac{1}{4} = \frac{1}{4}$$

$$\text{LCD } 5: 5, 10, 15, 20$$

$$\text{LCD } 4: 4, 8, 12, 16, 20$$

$$\frac{3}{4} \times \frac{5}{5} = \frac{15}{20}$$

$$+ \frac{3}{4} \times \frac{3}{3} = \frac{9}{12}$$

$$+ \frac{17}{2} = 2 \frac{17}{2} = 1 \frac{5}{17}$$

$$\frac{4}{5} \times \frac{4}{4} = \frac{16}{20}$$

$$- \frac{2}{4} \times \frac{5}{5} = \frac{10}{20}$$

$$+ \frac{6}{3} \times \frac{2}{2} = \frac{4}{3}$$

1 Find the least common denominator (LCD)

2 Multiply to find equivalent fractions with the LCD

3 Add/Subtract the numerators. The denominator stays the same

4 Convert to a mixed number and/or simplify (GCF), if possible

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MacBook Pro

REVIEW: ADD and SUBTRACT FRACTIONS 15

ADDITION

$\frac{2}{3} + \frac{1}{6} = \frac{12}{18} + \frac{3}{18} = \frac{15}{18} = \frac{5}{6}$

SUBTRACTION

$\frac{3}{4} - \frac{1}{2} = \frac{6}{8} - \frac{4}{8} = \frac{2}{8} = \frac{1}{4}$

AREA MODEL REVIEW

SIMPLEST FORM

STANDARD

1 LCD < 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87, 90, 93, 96, 99, 102, 105, 108, 111, 114, 117, 120, 123, 126, 129, 132, 135, 138, 141, 144, 147, 150, 153, 156, 159, 162, 165, 168, 171, 174, 177, 180, 183, 186, 189, 192, 195, 198, 201, 204, 207, 210, 213, 216, 219, 222, 225, 228, 231, 234, 237, 240, 243, 246, 249, 252, 255, 258, 261, 264, 267, 270, 273, 276, 279, 282, 285, 288, 291, 294, 297, 300, 303, 306, 309, 312, 315, 318, 321, 324, 327, 330, 333, 336, 339, 342, 345, 348, 351, 354, 357, 360, 363, 366, 369, 372, 375, 378, 381, 384, 387, 390, 393, 396, 399, 402, 405, 408, 411, 414, 417, 420, 423, 426, 429, 432, 435, 438, 441, 444, 447, 450, 453, 456, 459, 462, 465, 468, 471, 474, 477, 480, 483, 486, 489, 492, 495, 498, 501, 504, 507, 510, 513, 516, 519, 522, 525, 528, 531, 534, 537, 540, 543, 546, 549, 552, 555, 558, 561, 564, 567, 570, 573, 576, 579, 582, 585, 588, 591, 594, 597, 600, 603, 606, 609, 612, 615, 618, 621, 624, 627, 630, 633, 636, 639, 642, 645, 648, 651, 654, 657, 660, 663, 666, 669, 672, 675, 678, 681, 684, 687, 690, 693, 696, 699, 702, 705, 708, 711, 714, 717, 720, 723, 726, 729, 732, 735, 738, 741, 744, 747, 750, 753, 756, 759, 762, 765, 768, 771, 774, 777, 780, 783, 786, 789, 792, 795, 798, 801, 804, 807, 810, 813, 816, 819, 822, 825, 828, 831, 834, 837, 840, 843, 846, 849, 852, 855, 858, 861, 864, 867, 870, 873, 876, 879, 882, 885, 888, 891, 894, 897, 900, 903, 906, 909, 912, 915, 918, 921, 924, 927, 930, 933, 936, 939, 942, 945, 948, 951, 954, 957, 960, 963, 966, 969, 972, 975, 978, 981, 984, 987, 990, 993, 996, 999, 1000

REVIEW: ADD and SUBTRACT FRACTIONS 15

ADDITION

$\frac{2}{3} + \frac{1}{6} = \frac{12}{18} + \frac{3}{18} = \frac{15}{18} = \frac{5}{6}$

SUBTRACTION

$\frac{3}{4} - \frac{1}{2} = \frac{6}{8} - \frac{4}{8} = \frac{2}{8} = \frac{1}{4}$

AREA MODEL REVIEW

SIMPLEST FORM

STANDARD

1 LCD < 3: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87, 90, 93, 96, 99, 102, 105, 108, 111, 114, 117, 120, 123, 126, 129, 132, 135, 138, 141, 144, 147, 150, 153, 156, 159, 162, 165, 168, 171, 174, 177, 180, 183, 186, 189, 192, 195, 198, 201, 204, 207, 210, 213, 216, 219, 222, 225, 228, 231, 234, 237, 240, 243, 246, 249, 252, 255, 258, 261, 264, 267, 270, 273, 276, 279, 282, 285, 288, 291, 294, 297, 300, 303, 306, 309, 312, 315, 318, 321, 324, 327, 330, 333, 336, 339, 342, 345, 348, 351, 354, 357, 360, 363, 366, 369, 372, 375, 378, 381, 384, 387, 390, 393, 396, 399, 402, 405, 408, 411, 414, 417, 420, 423, 426, 429, 432, 435, 438, 441, 444, 447, 450, 453, 456, 459, 462, 465, 468, 471, 474, 477, 480, 483, 486, 489, 492, 495, 498, 501, 504, 507, 510, 513, 516, 519, 522, 525, 528, 531, 534, 537, 540, 543, 546, 549, 552, 555, 558, 561, 564, 567, 570, 573, 576, 579, 582, 585, 588, 591, 594, 597, 600, 603, 606, 609, 612, 615, 618, 621, 624, 627, 630, 633, 636, 639, 642, 645, 648, 651, 654, 657, 660, 663, 666, 669, 672, 675, 678, 681, 684, 687, 690, 693, 696, 699, 702, 705, 708, 711, 714, 717, 720, 723, 726, 729, 732, 735, 738, 741, 744, 747, 750, 753, 756, 759, 762, 765, 768, 771, 774, 777, 780, 783, 786, 789, 792, 795, 798, 801, 804, 807, 810, 813, 816, 819, 822, 825, 828, 831, 834, 837, 840, 843, 846, 849, 852, 855, 858, 861, 864, 867, 870, 873, 876, 879, 882, 885, 888, 891, 894, 897, 900, 903, 906, 909, 912, 915, 918, 921, 924, 927, 930, 933, 936, 939, 942, 945, 948, 951, 954, 957, 960, 963, 966, 969, 972, 975, 978, 981, 984, 987, 990, 993, 996, 999, 1000

2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



- 1 Find the least common denominator (LCD)
 - 2 Multiply to find equivalent fractions with the LCD.
 - 3 Add/Subtract the numerators. The denominator stays the same.
 - 4 Convert mixed and/or (GCF)
- denominator (LCD) and equivalent fractions with the LCD the numerators. The denominator stays the same. Convert to a mixed number and/or simplify (GCF), if possible.

REVIEW: ADD and SUBTRACT FRACTIONS (15)

ADDITION

$$\frac{2}{3} = \frac{12}{18}$$

$$\frac{1}{6} = \frac{3}{18}$$

$$\frac{15}{18} = \frac{5}{6}$$

AREA
MODEL
REVIEW

SIMPLEST
FORM

SUBTRACTION

$$\frac{3}{4} = \frac{6}{8}$$

$$\frac{1}{2} = \frac{4}{8}$$

$$\frac{2}{8} = \frac{1}{4}$$

① LCD 3: 4:

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

$$\frac{3}{4} \times \frac{3}{3} = \frac{9}{12}$$

$$\frac{17}{12} = \frac{17}{12}$$

$$\frac{17}{12} = 1 \frac{5}{12}$$

DETAILED ANSWER KEY

$$\frac{2}{4} \times \frac{5}{5} = \frac{10}{20}$$

$$\frac{6}{10} \div \frac{2}{2} = \frac{3}{5}$$

① Find the least common denominator (LCD)

② Multiply to find equivalent fractions with the LCD.

③ Add/Subtract the numerators. The denominator stays the same.

④ Convert to a mixed number and/or simplify (GCF), if possible.

MATH SKETCH NOTES

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These 6th-grade math sketch notes (AKA doodle pages) are a powerful learning and teaching tool. They cover essential math concepts and procedures for students in a visually appealing way. You can use this resource to supplement any math curriculum, and they are perfect for previewing/pre-teaching or reviewing/reinforcing.

These sketch pages are like mini anchor charts that your students actively create and can be referred to in the future.

WHAT'S INCLUDED:

- Blank student note page
(two sizes: 8.5 x 11 & composition notebook size for INBs)
- Detailed answer key
- Step-by-step PowerPoint

GUIDED NOTE-TAKING

Guiding your students through the note-taking process is so easy and requires almost zero preparation!

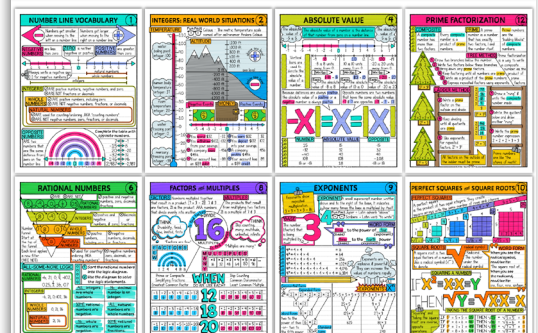
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

WHY SKETCH?

Sketch notes present your students with a meaningful and engaging activity they will love. Doodle note-taking activates verbal and visual modalities to capture concepts. The whole brain is absorbed in hearing, synthesizing, and retaining ideas. This high level of engagement helps students retain the content and leaves little room for distraction.

GET THE BUNDLE!!!

SIXTH GRADE MATH GUIDED SKETCH NOTES



GROWING BUNDLE