

MATH SKETCH NOTES

REVIEW: ADD and SUBTRACT MIXED NUMBERS 16



ADDITION

$6\frac{7}{8} \times \frac{3}{3} = \frac{21}{24}$ (LCD)
 $+ 2\frac{5}{6} \times \frac{4}{4} = \frac{20}{24}$ (LCD)
 $9\frac{17}{24} = 9\frac{41}{24} = 24\overline{)41}^{17} = 1\frac{17}{24}$

Regrouping:
AKA "carrying"
in addition

REGROUPING

- 1 Create equivalent fractions with the LCD.
- 2 Add only the numerators. The denominator stays the same.
- 3 Convert the improper fraction into a mixed number.
- 4 Add the whole in the mixed number to the other whole numbers.
- 5 Rewrite the fraction. Simplify, if possible.



SUBTRACTION

$6\frac{7}{9} \times \frac{2}{2} = \frac{12}{18}$ (LCD)
 $- 2\frac{5}{6} \times \frac{3}{3} = \frac{15}{18}$ (LCD)
 $4\frac{5}{6} = \frac{15}{18} \div \frac{3}{3} = \frac{5}{6}$ (GCF)

Ungrouping:
AKA "borrowing"
in subtraction

UNGROUPING

- 1 Create equivalent fractions with the LCD.
- 2 If you can't subtract the fractions then you must ungroup.
- 3 Subtract one whole and convert it to a fraction.
- 4 Add this fraction to the smaller fraction, creating an improper fraction.
- 5 Subtract the fractions.

GRADE 6

(GCF)

STEP-BY-STEP POWERPOINT

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AKA "carrying"
in addition

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REGROUPING

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- 2 If you can't subtract the fractions then you must ungroup.
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- 5 Subtract the fractions.
- 6 Subtract the whole numbers.
- 7 Simplify, if possible (GCF).

UNGROUPING

$$\begin{array}{r} 1 \frac{18}{18} \\ - 2 \frac{5}{6} \\ \hline 4 \frac{5}{6} \end{array}$$

Handwritten work for $1 \frac{18}{18} - 2 \frac{5}{6}$ showing conversion to a common denominator of 18, regrouping, and simplification. Includes a yellow box labeled 'GCF'.

MacBook Pro

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SUBTRACTION

Unrouping:

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2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



$4\frac{5}{6} \div \frac{3}{6} = \frac{15}{18} \div \frac{3}{6} = \frac{5}{3} = 1\frac{2}{3}$ GCF

- 5 Subtract the whole numbers.
- 6 Subtract the numbers.
- 7 Simplify, if possible (GCF).

$1\frac{1}{2} \div \frac{3}{6} = \frac{3}{2} \div \frac{3}{6} = \frac{3}{2} \times \frac{6}{3} = \frac{18}{2} = 9$ GCF

- 5 Subtract the whole numbers.
- 6 Simplify, if possible (GCF).

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ADDITION

LCD < 8: 8, 16, (24) 32
6: 6, 12, 18, (24)

$$\begin{array}{r} 6\frac{7}{8} \times \frac{3}{3} = \frac{21}{24} \leftarrow \text{LCD} \\ + 2\frac{5}{6} \times \frac{4}{4} = \frac{20}{24} \leftarrow \text{LCD} \\ \hline 9\frac{17}{24} \end{array}$$

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AKA "carrying"
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SUB

LCD <

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DETAILED ANSWER KEY

UNGROUPING

- 1 must ungroup.
- 2 Subtract one whole and convert it to a fraction.
- 3 Add this fraction to the smaller fraction, creating an improper fraction.
- 4 Subtract the fractions.
- 5 Subtract the whole numbers.
- 6 Simplify, if possible (GCF).

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!

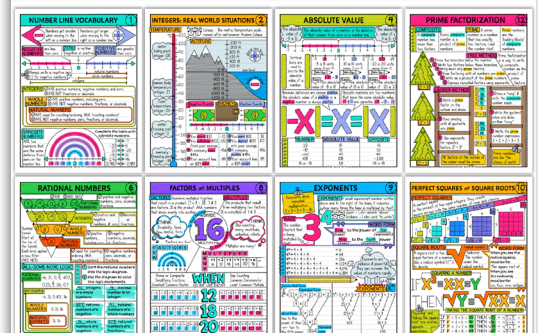
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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