

MATH SKETCH NOTES

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These 5th-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 × 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!

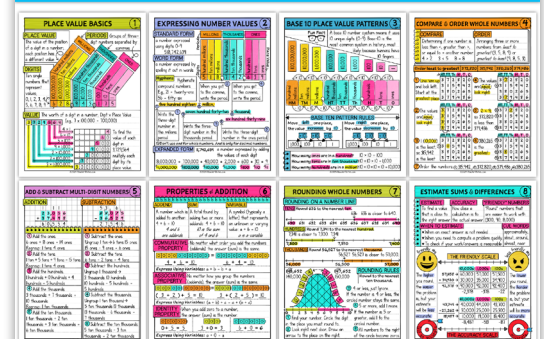
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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!!!

FIFTH GRADE MATH GUIDED SKETCH NOTES



GROWING BUNDLE

MATH SKETCH NOTES

WHOLE NUMBERS ÷ UNIT FRACTIONS 52 Set 5

UNIT FRACTION

1 A unit fraction is ONE equal part of a whole.
d The numerator of a unit fraction is always ONE.

RECIPROCALLS

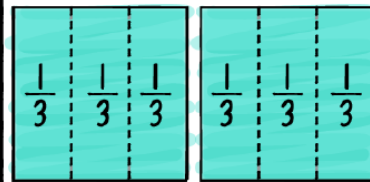
Two numbers whose product is ONE. Every number, except 0, has a reciprocal.

$$d \times \frac{1}{d} = 1$$

$$2 \times \frac{1}{2} = 1 \quad 4 \times \frac{1}{4} = 1 \quad 7 \times \frac{1}{7} = 1$$

THINK...
How many $\frac{1}{3}$ are in 2?

$$2 \div \frac{1}{3} = 6$$



Fun Fact Dividing by a fraction is the same as...

...multiplying by the fraction's reciprocal.

$$2 \div \frac{1}{3} = 2 \times 3$$

divide	multiply	answer
$10 \div \frac{1}{2}$	10×2	20
$6 \div \frac{1}{4}$	6×4	24
$7 \div \frac{1}{9}$	7×9	63

STANDARD ALGORITHM

- Convert all factors to fractions.
- Keep the 1st fraction the same.
- Change the sign ($\div$) to multiply ($\times$).
- Flip the 2nd fraction (reciprocal).
- Multiply across the fractions.
- Simplify. Convert to whole or mixed #.

$$\rightarrow 3 \div \frac{1}{6} = \frac{3}{1} \div \frac{1}{6}$$

$$\rightarrow \frac{3}{1} \div \frac{1}{6}$$

$$\rightarrow \frac{3}{1} \times \frac{6}{1}$$

Keep
Change

GRADE 5

WHOLE NUMBERS ÷ UNIT FRACTIONS (52)

UNIT FRACTION
1 A unit fraction is ONE equal part of a whole.
d The numerator of a unit fraction is always ONE.

RECIPROCAL
 Two numbers whose product is ONE. Every number, except 0, has a reciprocal.
 $2 \times \frac{1}{2} = 1$ $4 \times \frac{1}{4} = 1$ $7 \times \frac{1}{7} = 1$

THINK...
 How many $\frac{1}{3}$ are in 2?
 $2 \div \frac{1}{3} = 6$

Fun Fact Dividing by a fraction is the same as... multiplying by the fraction's reciprocal.
 $2 \div \frac{1}{3} = 2 \times 3 = 6$

WHOLE NUMBERS ÷ UNIT FRACTIONS (52)

UNIT FRACTION
1 A unit fraction is ONE equal part of a whole.
d The numerator of a unit fraction is always ONE.

RECIPROCAL
 Two numbers whose product is ONE. Every number, except 0, has a reciprocal.
 $2 \times \frac{1}{2} = 1$ $4 \times \frac{1}{4} = 1$ $7 \times \frac{1}{7} = 1$

THINK...
 How many $\frac{1}{3}$ are in 2?
 $2 \div \frac{1}{3} = 6$

Fun Fact Dividing by a fraction is the same as... multiplying by the fraction's reciprocal.
 $2 \div \frac{1}{3} = 2 \times 3 = 6$

2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



- Change the sign (÷) to multiply (×).
- Flip the 2nd fraction (reciprocal).
- Multiply across the fractions.
- Simplify. Convert to whole or mixed #.

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

- Multiply across the fractions.
- Simplify. Convert to whole or mixed #.

STEP-BY-STEP POWERPOINT

WHOLE NUMBERS ÷ UNIT FRACTIONS (52)

1 A unit fraction is ONE equal part of a whole.
The numerator is 1.

RECIPROCAL

Two numbers whose product is ONE. Every number, except 0, has a reciprocal.

$$d \times \frac{1}{d} = 1$$

$$\frac{1}{2} = 1 \quad 4 \times \frac{1}{4} = 1 \quad 7 \times \frac{1}{7} = 1$$

Dividing by a fraction is the same as...

...multiplying by the fraction's reciprocal.

$$\div \frac{1}{3} = 2 \times 3$$

divide multiply answer

$$\frac{1}{3} \quad \frac{1}{3} \quad \frac{1}{3} \quad \frac{1}{3} \quad \frac{1}{3}$$

$$\begin{array}{l} 10 \div \frac{1}{2} = 10 \times 2 = 20 \\ 6 \div \frac{1}{4} = 6 \times 4 = 24 \\ 7 \div \frac{1}{9} = 7 \times 9 = 63 \end{array}$$

STANDARD ALGORITHM

- Convert all factors to fractions. $\rightarrow 3 \div \frac{1}{6} = \frac{3}{1} \div \frac{1}{6}$
- Keep the 1st fraction the same. $\rightarrow \frac{3}{1} \div \frac{1}{6}$
- Change the sign (+) to multiply (x). $\rightarrow \frac{3}{1} \times \frac{6}{1}$
- Flip the 2nd fraction (reciprocal). $\rightarrow \frac{3}{1} \times \frac{6}{1}$
- Multiply across the fractions. $\rightarrow \frac{3}{1} \times \frac{6}{1} = \frac{18}{1}$
- Simplify. Convert to whole or mixed #. $\rightarrow 18$

Keep
Change
Flip
Multiply

MacBook Pro

WHOLE NUMBERS ÷ UNIT FRACTIONS (52)

UNIT FRACTION

$$\frac{1}{d}$$

A unit fraction is ONE equal part of a whole.
The numerator of a unit fraction is always ONE

RECIPROCAL

Two numbers whose product is ONE. Every number, except 0, has a reciprocal.

$$d \times \frac{1}{d} = 1$$

$$2 \times \frac{1}{2} = 1 \quad 4 \times \frac{1}{4} = 1 \quad 7 \times \frac{1}{7} = 1$$

THINK...

How many $\frac{1}{3}$ are in 2?

$$2 \div \frac{1}{3}$$



Fun Fact Dividing by a fraction is the same as...

...multiplying by the fraction's reciprocal.

DETAILED ANSWER KEY

$$\frac{1}{3} \quad \frac{1}{3} \quad \frac{1}{3}$$

STANDARD ALGORITHM

- Convert all factors to fractions.
- Keep the 1st fraction the same.
- Change the sign ($\div$) to multiply ($\times$).
- Flip the 2nd fraction (reciprocal).
- Multiply across the fractions.
- Simplify. Convert to whole or mixed #.

$$\rightarrow 3 \div \frac{1}{6} = \frac{3}{1} \div \frac{1}{6}$$

$$\rightarrow \frac{3}{1} \div \frac{1}{6}$$

$$\rightarrow \frac{3}{1} \times \frac{6}{1}$$

$$\rightarrow \frac{3}{1} \times \frac{6}{1}$$

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

$$\rightarrow 18$$

Keep
Change
Flip
Multiply