

MATH SKETCH NOTES

MATH SKETCH NOTES

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!

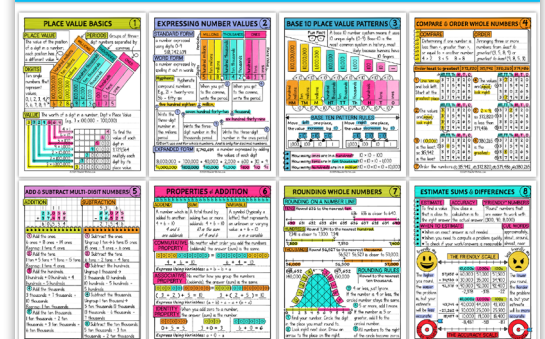
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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

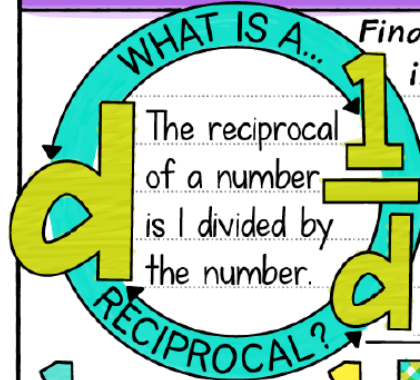


GROWING BUNDLE

MATH SKETCH NOTES

UNIT FRACTIONS ÷ WHOLE NUMBERS

53
Set 5



Find the reciprocal (AKA multiplicative inverse) of a number...

① Write it as a fraction: $4 = \frac{4}{1}$

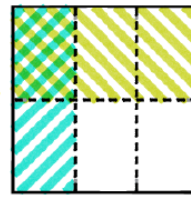
② Flip the fraction: $\frac{1}{4}$

When you multiply a number by its reciprocal, $\rightarrow 4 \times \frac{1}{4} = 1$

the product is always 1. $\rightarrow \frac{3}{1} \times \frac{1}{3} = 1$

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

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



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

REMEMBER

Dividing by a number

(2) is the same as...

...multiplying by the

number's reciprocal ($\frac{1}{2}$)

REMEMBER

STANDARD ALGORITHM

① Convert all factors to fractions.

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

② Keep the 1st fraction the same.

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

③ Change the sign ($\div$) to multiply ($\times$).

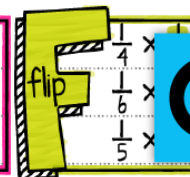
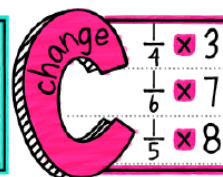
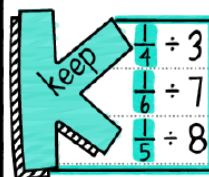
$$\rightarrow \frac{1}{3} \times \frac{2}{1}$$

④ Flip the 2nd fraction (reciprocal).

$$\rightarrow \frac{1}{3} \times \frac{1}{2}$$

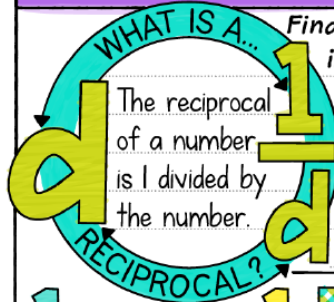
⑤ Multiply across the fractions.

$$\rightarrow \frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$$



GRADE 5

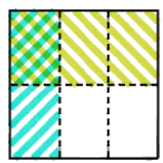
UNIT FRACTIONS ÷ WHOLE NUMBERS 53



Find the reciprocal (AKA multiplicative inverse) of a number...

- ① Write it as a fraction: $4 = \frac{4}{1}$
 - ② Flip the fraction: $\frac{1}{4}$
- When you multiply a number by its reciprocal, the product is always 1.

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

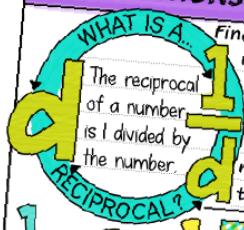


$$\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$$

REMEMBER

Dividing by a number $\rightarrow$ multiplying by the

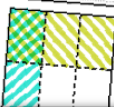
UNIT FRACTIONS ÷ WHOLE NUMBERS 53



Find the reciprocal (AKA multiplicative inverse) of a number...

- ① Write it as a fraction: $4 = \frac{4}{1}$
 - ② Flip the fraction: $\frac{1}{4}$
- When you multiply a number by its reciprocal, the product is always 1.

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



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

2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



STEP-BY-STEP POWERPOINT

UNIT FRACTIONS ÷ WHOLE NUMBERS (53)

WHAT IS A... Find the reciprocal (AKA multiplicative inverse) of a number...

The reciprocal of a number is 1 divided by...

① Write it as a fraction: $4 = \frac{4}{1}$
② Flip the fraction: $\frac{1}{4}$

When you multiply a number by its reciprocal, the product is always 1.

$\rightarrow 4 \times \frac{1}{4} = 1$
 $\rightarrow \frac{1}{2} \times \frac{2}{1} = 1$
 $\rightarrow \frac{2}{3} \times \frac{3}{2} = 1$

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

multiplying by the number's reciprocal

REMEMBER

STANDARD ALGORITHM

- ① Convert all factors to fractions. $\rightarrow \frac{1}{3} \div 2 = \frac{1}{3} \div \frac{2}{1}$
- ② Keep the 1st fraction the same. $\rightarrow \frac{1}{3} \div \frac{2}{1}$
- ③ Change the sign (+) to multiply (x). $\rightarrow \frac{1}{3} \times \frac{1}{2}$
- ④ Flip the 2nd fraction (reciprocal). $\rightarrow \frac{1}{3} \times \frac{1}{2}$
- ⑤ Multiply across the fractions. $\rightarrow \frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$

KEEP $\frac{1}{3} \div 3 = \frac{1}{3} \div \frac{3}{1}$
 $\frac{1}{3} \div 7 = \frac{1}{3} \div \frac{7}{1}$
 $\frac{1}{3} \div 8 = \frac{1}{3} \div \frac{8}{1}$

CHANGE $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 $\frac{1}{3} \times \frac{1}{7} = \frac{1}{21}$
 $\frac{1}{3} \times \frac{1}{8} = \frac{1}{24}$

FLIP $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 $\frac{1}{3} \times \frac{1}{7} = \frac{1}{21}$
 $\frac{1}{3} \times \frac{1}{8} = \frac{1}{24}$

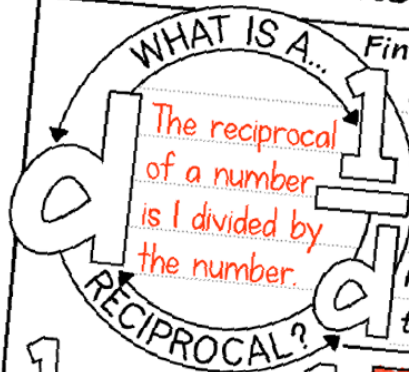
REMEMBER $\frac{1}{3} \times \frac{1}{3} = \frac{1}{9}$
 $\frac{1}{3} \times \frac{1}{7} = \frac{1}{21}$
 $\frac{1}{3} \times \frac{1}{8} = \frac{1}{24}$

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MacBook Pro

UNIT FRACTIONS ÷ WHOLE NUMBERS (53)

Set 5



Find the reciprocal (AKA multiplicative inverse) of a number...

- ① Write it as a fraction: $4 = \frac{4}{1}$
- ② Flip the fraction: $\frac{1}{4}$

When you multiply a number by its reciprocal, the product is always 1. $\rightarrow 4 \times \frac{1}{4} = 1$
 $\rightarrow \frac{3}{1} \times \frac{1}{3} = 1$
 $\rightarrow \frac{2}{3} \times \frac{3}{2} = 1$

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

REMEMBER

Divide (2) is

STANDARD A

- ① Convert all fractions.
- ② Keep the 1st fraction the same.
- ③ Change the sign ($\div$) to multiply ($\times$).
- ④ Flip the 2nd fraction (reciprocal).
- ⑤ Multiply across the fractions.

$$\begin{aligned} \rightarrow \frac{1}{3} \div 2 &= \frac{1}{3} \div \frac{2}{1} \\ \rightarrow \frac{1}{3} \div \frac{2}{1} &= \frac{1}{3} \times \frac{1}{2} \\ \rightarrow \frac{1}{3} \times \frac{1}{2} &= \frac{1}{6} \end{aligned}$$

K $\frac{1}{4} \div 3$
 $\frac{1}{6} \div 7$
 $\frac{1}{5} \div 8$

C $\frac{1}{4} \times 3$
 $\frac{1}{6} \times 7$
 $\frac{1}{5} \times 8$

F $\frac{1}{4} \times \frac{1}{3}$
 $\frac{1}{6} \times \frac{1}{7}$
 $\frac{1}{5} \times \frac{1}{8}$

M $\frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$
 $\frac{1}{6} \times \frac{1}{7} = \frac{1}{42}$
 $\frac{1}{5} \times \frac{1}{8} = \frac{1}{40}$