

MATH SKETCH NOTES

RECIPROCAL/MULTIPLICATIVE INVERSES

19
Set 6

WHAT IS A RECIPROCAL?
The reciprocal of a number is 1 divided by the number.

THINK
5 and $\frac{1}{5}$ are reciprocals.
 $\frac{1}{4}$ and 4 are reciprocals.

THINK
 $\frac{2}{3}$ and $\frac{3}{2}$ are reciprocals.
 $\frac{4}{9}$ and $\frac{9}{4}$ are reciprocals.

Reciprocal is also known as multiplicative inverse.

FRACTIONS & RECIPROCAL
A reciprocal is the inverse or opposite form of a fraction. "flip it!"

$\frac{5}{9}$ and $\frac{9}{5}$ are reciprocals.
 $\frac{8}{3}$ and $\frac{3}{8}$ are reciprocals.
 $\frac{6}{1}$ and $\frac{1}{6}$ are reciprocals.

MULTIPLYING RECIPROCAL



$$\frac{1}{4} \times \frac{4}{1} = \frac{4}{4} = 1$$

$$\frac{3}{4} \times \frac{4}{3} = \frac{12}{12} = 1$$

$$\frac{a}{b} \times \frac{b}{a} = \frac{ab}{ab} = 1$$

When you multiply two reciprocal numbers, the product is 1.

$$\frac{1}{7} \times 7 = \frac{7}{7} = 1 \quad \left| \quad \frac{4}{7} \times \frac{7}{4} = \frac{28}{28} = 1 \right|$$

GRADE 6

STEP-BY-STEP POWERPOINT

RECIPROCAL/MULTIPLICATIVE INVERSES 19

WHAT IS A RECIPROCAL?
The reciprocal of a number is 1 divided by that number.

THINK
5 and $\frac{1}{5}$ are reciprocals
 $\frac{1}{7}$ and 7 are reciprocals

THINK
and $\frac{1}{2}$ are reciprocals
and 3 are reciprocals

RECIPROCAL
A reciprocal is the inverse or opposite form of a fraction. "flip it!"

RECIPROCAL
 $\frac{a}{b} \times \frac{b}{a} = 1$

RECIPROCAL
 $\frac{1}{4} \times \frac{4}{1} = 1$

RECIPROCAL
 $\frac{3}{4} \times \frac{4}{3} = 1$

RECIPROCAL
 $\frac{a}{b} \times \frac{b}{a} = \frac{ab}{ab} = 1$

RECIPROCAL
When you multiply two reciprocal numbers, the product is always 1.

$\frac{1}{7} \times 7 = \frac{7}{7} = 1$ | $\frac{4}{7} \times \frac{7}{4} = \frac{28}{28} = 1$ | $\frac{2}{3} \times \frac{3}{2} = \frac{6}{6} = 1$

RECIPROCALLS/MULTIPLICATIVE INVERSES 19

WHAT IS A RECIPROCAL?
The reciprocal of a number is 1 divided by the number.

THINK
5 and $\frac{1}{5}$ are reciprocals.
 $\frac{1}{4}$ and 4 are reciprocals.

THINK
 $\frac{3}{4}$ and $\frac{4}{3}$ are reciprocals.
 $\frac{2}{5}$ and $\frac{5}{2}$ are reciprocals.

Reciprocal is also known as multiplicative inverse.

FRACTIONS
A reciprocal is the inverse or opposite form of a fraction "flip it!"

MULTIPLYING RECIPROCALLS
 $\frac{1}{4} \times 4$

RECIPROCALLS/MULTIPLICATIVE INVERSES 19

WHAT IS A RECIPROCAL?
The reciprocal of a number is 1 divided by the number.

THINK
5 and $\frac{1}{5}$ are reciprocals.
 $\frac{1}{4}$ and 4 are reciprocals.

THINK
 $\frac{3}{4}$ and $\frac{4}{3}$ are reciprocals.
 $\frac{2}{5}$ and $\frac{5}{2}$ are reciprocals.

Reciprocal is also known as multiplicative inverse.

FRACTIONS
A reciprocal is the inverse or opposite form of a fraction "flip it!"

MULTIPLYING RECIPROCALLS
 $\frac{1}{4} \times 4$

2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



It is always 1

$\frac{1}{7} \times 7 = \frac{7}{7} = 1$ | $\frac{4}{7} \times \frac{7}{4} = \frac{28}{28} = 1$ | $\frac{2}{3} \times \frac{3}{2} = \frac{6}{6} = 1$

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RECIPROCAL/MULTIPLICATIVE INVERSES 19

Set 6

WHAT IS A

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

RECIPROCAL?

THINK

5 and $\frac{1}{5}$ are reciprocals.
 $\frac{1}{4}$ and 4 are reciprocals.

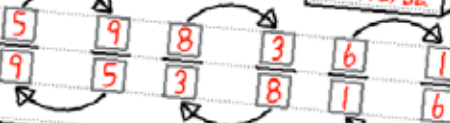
THINK

$\frac{2}{3}$ and $\frac{3}{2}$ are reciprocals.
 $\frac{1}{4}$ and $\frac{4}{1}$ are reciprocals.

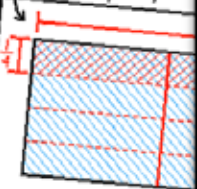
Reciprocal is also known as multiplicative inverse

FRACTIONS &

A reciprocal is the inverse or opposite form of a fraction "flip it!"



$$\frac{1}{4} \times 4$$



$$\frac{1}{4} \times \frac{4}{1} = \frac{4}{4} = 1$$

$$\frac{3}{4} \times \frac{4}{3} = \frac{12}{12} = 1$$

$$\frac{a}{b} \times \frac{b}{a} = \frac{ab}{ab} = 1$$

When you multiply two reciprocal numbers, the product is always 1.

$$\frac{1}{7} \times 7 = \frac{7}{7} = 1$$

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

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MATH SKETCH NOTES

MATH SKETCH NOTES

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!

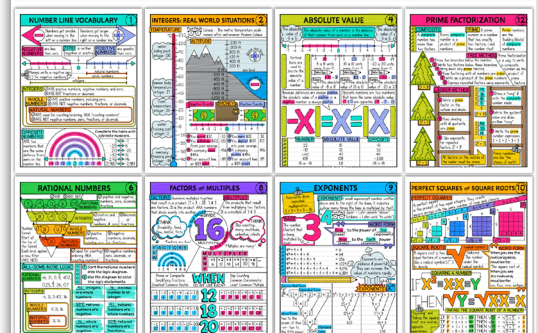
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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