

MATH SKETCH NOTES

ASSOCIATIVE PROPERTY

19
Set 3

Fun Fact *Associare* is a Latin verb that means "to join with" or "to unite" a group.



of MULTIPLICATION

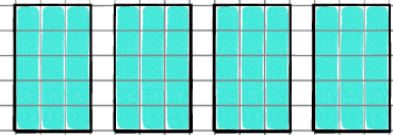
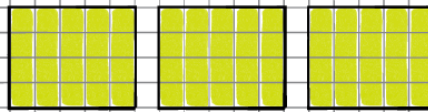
The way factors are grouped does not change the product. Parentheses () show which factors to multiply first.

THINK
2 groups
of 4×3
is 24.



THINK
3 groups
of 2×4
is 24

$$\begin{aligned} 2 \times (4 \times 3) &= (2 \times 4) \times 3 \\ 2 \times 12 &= 8 \times 3 \\ 24 &= 24 \end{aligned}$$



THINK
3 groups of
 5×4 is 60.

$$\begin{aligned} 3 \times (5 \times 4) &= (3 \times 5) \times 4 \\ 3 \times 20 &= 15 \times 4 \\ 60 &= 60 \end{aligned}$$

THINK
4 groups of
 3×5 is 60.

$$\begin{aligned} (3 \times 2) \times 5 &= 3 \times (2 \times 5) & 5 \times (8 \times 3) &= (3 \times 5) \times 8 \\ 2 \times (7 \times 4) &= (7 \times 2) \times 4 & 9 \times (6 \times 2) &= (3 \times 3) \times (2 \times 3) \\ 4 \times (6 \times 5) &= (5 \times 4) \times 6 & (7 \times 8) \times 2 &= (2 \times 4) \times 8 \end{aligned}$$

GRADE 3

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2 SIZES: STANDARD US 8.5×11 & COMPOSITION NOTEBOOK



$$2 \times (7 \times 4) = (7 \times 2) \times 4 \quad 9 \times (6 \times 4) = (9 \times 6) \times 4$$

$$4 \times (6 \times 5) = (5 \times 4) \times 6 \quad (7 \times 8) \times 2 = 8 \times (2 \times 7)$$

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$$4 \times (6 \times 5) = (5 \times 4) \times 6 \quad 9 \times (6 \times 4) = (9 \times 6) \times 4$$

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STEP-BY-STEP POWERPOINT

ASSOCIATIVE PROPERTY

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Set 2

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$2 \times 4 = 8$
 $3 \times 8 = 24$
 $2 \times (4 \times 3) = 2 \times 12 = 24$
 $(2 \times 4) \times 3 = 8 \times 3 = 24$

THINK
3 groups
of 2×4
is 24

THINK
3 groups of
 5×4 is 60

$3 \times (5 \times 4) = (3 \times 5) \times 4$
 $3 \times 20 = 15 \times 4$
 $60 = 60$

THINK
4 groups of
 3×5 is 60

$3 \times (5 \times 4) = (3 \times 5) \times 4$
 $3 \times 20 = 15 \times 4$
 $60 = 60$

$(3 \times 2) \times 5 = 3 \times (2 \times 5)$
 $2 \times (7 \times 4) = (7 \times 2) \times 4$
 $4 \times (6 \times 5) = (5 \times 4) \times 6$
 $(5 \times 8) \times 2 = 8 \times (2 \times 7)$

MacBook Pro

ASSOCIATIVE PROPERTY

19
Set 3



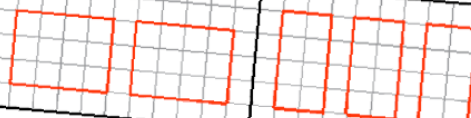
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THINK

3 groups of 5×4 is 60

$$\begin{aligned} 3 \times 20 &= 15 \times 4 \\ 60 &= 60 \end{aligned}$$

THINK

4 groups of 3×5 is 60

$$(3 \times 2) \times 5 = 3 \times (2 \times 5)$$

$$5 \times (8 \times 3) = (3 \times 5) \times 8$$

$$2 \times (7 \times 4) = (7 \times 2) \times 4$$

$$9 \times (6 \times 4) = (9 \times 6) \times 4$$

$$4 \times (6 \times 5) = (5 \times 4) \times 6$$

$$(7 \times 8) \times 2 = 8 \times (2 \times 7)$$

MATH SKETCH NOTES

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These 3rd-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!

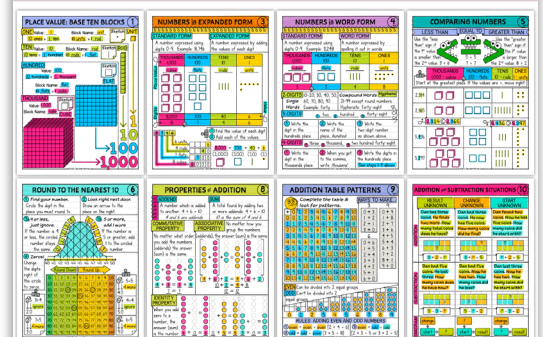
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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!!!

**THIRD GRADE MATH
GUIDED SKETCH NOTES**



GROWING BUNDLE!!!

Helping teachers thrive in the classroom

Teacher THRIVE

Thank you for downloading this resource! There is nothing more rewarding to me than creating resources that make teachers' jobs easier.

Also, thank you for all that you do with our most precious resource—children! Your job is far from easy, so anything I can do to help you brings me great joy. Please feel free to email me anytime with questions, feedback, or comments.

Melissa Tallman
info@teacherthrive.com

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