

MATH SKETCH NOTES

DISTRIBUTIVE PROPERTY

20
Set 3

Fun Fact *Distribuere* is a Latin verb that means to "divide, deal out, or spread."



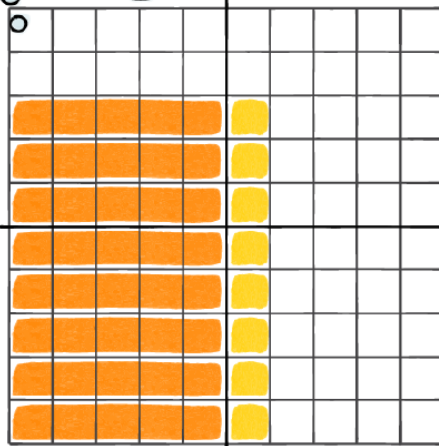
You can "spread" multiplication over addition and subtraction.



OVER ADDITION

THINK Multiply by 5, then add a group.

$$5 \times 8 = 40, 40 + 8 = 48$$



$$6 \times 8 = (5 \times 8) + (1 \times 8)$$

APPLY OVER ADDITION

$$6 \times 7 = (5 \times 7) + (1 \times 7) = 42$$

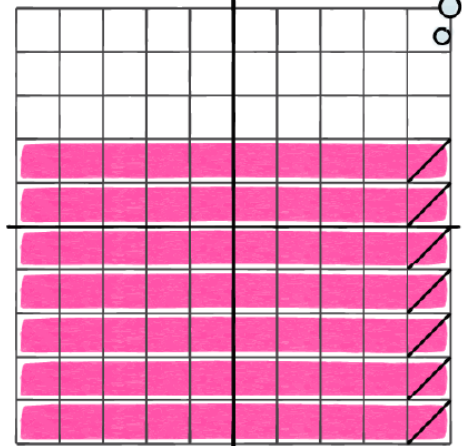
$$6 \times 4 = (5 \times 4) + (1 \times 4) = 24$$



OVER SUBTRACTION

THINK Multiply by 10, then subtract a group.

$$10 \times 7 = 70, 70 - 7 = 63$$



$$9 \times 7 = (10 \times 7) - (1 \times 7)$$

APPLY OVER SUBTRACTION

$$9 \times 6 =$$

$$9 \times 8 =$$

GRADE 3



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+ OVER ADDITION

THINK Multiply by 5, then add a group.
 $5 \times 8 = 40, 40 + 8 = 48$

- OVER SUBTRACTION

THINK Multiply by 10, then subtract a group.
 $10 \times 7 = 70, 70 - 7 = 63$

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+ OVER ADDITION

THINK Multiply by 5, then add a group.
 $5 \times 8 = 40, 40 + 8 = 48$

- OVER SUBTRACTION

THINK Multiply by 10, then subtract a group.
 $10 \times 7 = 70, 70 - 7 = 63$

2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



APPLY OVER ADDITION

$$6 \times 7 = (\underline{5} \times \underline{7}) + (\underline{1} \times \underline{7}) = 42$$

$$6 \times 4 = (\underline{5} \times \underline{4}) + (\underline{1} \times \underline{4}) = 24$$

APPLY OVER SUBTRACTION

$$9 \times 6 = (\underline{10} \times \underline{6}) - (\underline{1} \times \underline{6}) = 54$$

$$9 \times 8 = (\underline{10} \times \underline{8}) - (\underline{1} \times \underline{8}) = 72$$

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$$6 \times 4 = (\underline{5} \times \underline{4}) + (\underline{1} \times \underline{4}) = 24 \quad 9 \times 6 = (\underline{10} \times \underline{6}) - (\underline{1} \times \underline{6}) = 54$$

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STEP-BY-STEP POWERPOINT

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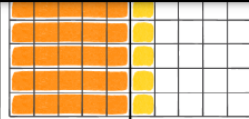
OVER ADDITION

You can "spread" multiplication over addition and subtraction.



OVER SUBTRACTION

TIP Multiply by 10, then subtract a group.
 $10 \times 7 = 70$, $70 - 7 = 63$

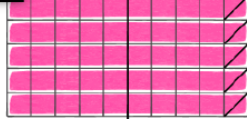


$$6 \times 8 = (5 \times 8) + (1 \times 8)$$

APPLY OVER ADDITION

$$6 \times 7 = (5 \times 7) + (1 \times 7) = 35$$

$$6 \times 4 = (5 \times 4) + (1 \times 4) = 24$$



$$9 \times 7 = (10 \times 7) - (1 \times 7)$$

APPLY OVER SUBTRACTION

$$9 \times 6 = (10 \times 6) - (1 \times 6) = 54$$

$$9 \times 8 = (10 \times 8) - (1 \times 8) = 72$$

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MacBook Pro

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Fun Fact  *Distribuere* is a Latin verb that means to "divide, deal out, or spread."

 You can "spread" multiplication over addition and subtraction.

 OVER ADDITION

 OVER SUBTRACTION

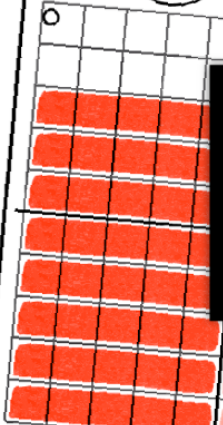
THINK Multiply by 5, then add a group.

$$5 \times 8 = 40, 40 + 8 = 48$$

THINK Multiply by 10, then subtract a group.

$$10 \times 7 = 70, 70 - 7 = 63$$

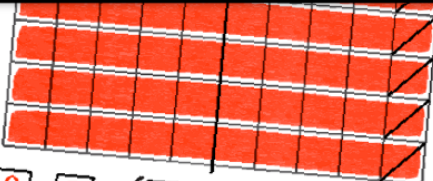
DETAILED ANSWER KEY


$$6 \times 8 = (5 \times 8) + (1 \times 8)$$

APPLY OVER ADDITION

$$6 \times 7 = (5 \times 7) + (1 \times 7) = 42$$

$$6 \times 4 = (5 \times 4) + (1 \times 4) = 24$$


$$9 \times 7 = (10 \times 7) - (1 \times 7)$$

APPLY OVER SUBTRACTION

$$9 \times 6 = (10 \times 6) - (1 \times 6) = 54$$

$$9 \times 8 = (10 \times 8) - (1 \times 8) = 72$$

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MATH SKETCH NOTES

MATH SKETCH NOTES

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!

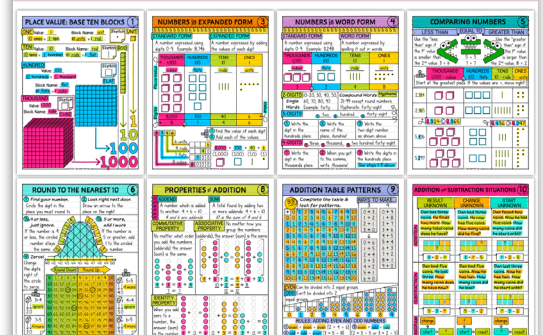
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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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