

MATH SKETCH NOTES

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These 4th-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!

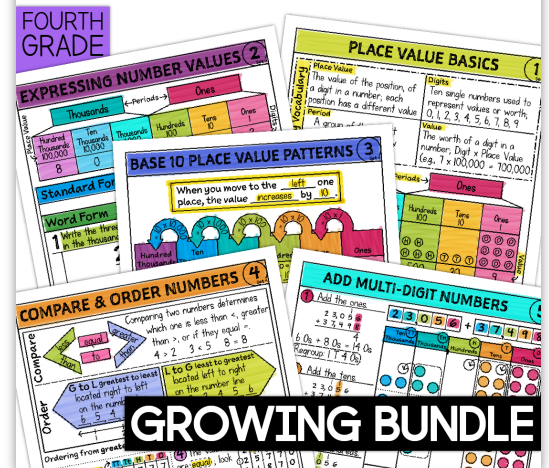
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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!!!

MATH SKETCH NOTES



MATH SKETCH NOTES

LONG DIVISION WITH REMAINDERS (31)

Set 4

Area Model/
Box Method

A baker has 2,987 cookies that he must pack equally into boxes. Each box can hold 6 cookies.

$$400 + 90 + 7 = 497 \text{ R}5$$

$$\begin{array}{r} 2,987 \\ -2,400 \\ \hline 587 \end{array}$$

Partial
Quotients

How many boxes can the baker fill?

Drop it!

Ignore the remainder; the quotient is the answer. He can fill 497 boxes.

How many cookies will he have left?

Use it!

The remainder is the answer. He will have 5 cookies left

$$\begin{array}{r} 497 \text{ R}5 \\ 6 \overline{) 2,987} \\ -2,400 \\ \hline 587 \\ -540 \\ \hline 47 \\ -42 \\ \hline 5 \end{array}$$

What is the fewest number of boxes needed to hold all 2,987 cookies?

Round it!

All the cookies must be packed in a box, so round the quotient up 1 to make 498. 498 boxes are needed.

Standard
Algorithm

D ÷ Divide
M × Multiply
S - Subtract
B ↓ Bring Down
R ← Repeat
Remainder

$$\begin{array}{r} 0497 \text{ R}5 \\ 6 \overline{) 2,987} \\ -24 \downarrow \\ \hline 58 \\ -54 \downarrow \\ \hline 4 \end{array}$$

GRADE 4

LONG DIVISION WITH REMAINDERS (31)

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Box Method

A baker has 2,987 cookies that he must pack equally into boxes. Each box can hold 6 cookies.

$$400 + 90 + 7 = 497 \text{ R}5$$

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Partial
Quotients

6	4	9	7	R5
-	2	4	0	0
				400
				6 × 400 = 2,400
				587
				90
				6 × 90 = 540
				47
				5

How many boxes can the baker fill? Ignore the remainder. The quotient is the answer. He can fill 497 boxes.

How many cookies will he have left? The remainder is 5.

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2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



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R↻ Repeat or Remainder

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STEP-BY-STEP POWERPOINT

LONG DIVISION WITH REMAINDERS 31

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Box Method

A baker has 2,987 cookies that he must pack equally into boxes. Each box can hold 6 cookies.

$$400 + 90 + 7 = 497 \text{ R}5$$

$$\begin{array}{r} 2,987 \\ 6 \overline{) 2,987} \\ \underline{2,400} \\ 587 \\ \underline{540} \\ 47 \\ \underline{42} \\ 5 \end{array}$$

How many boxes can the baker fill? Ignore the remainder; the quotient is the answer. He can fill 497 boxes.

How many cookies will he have left? The remainder is the answer. He will have 5 cookies left.

What is the fewest number of boxes needed to hold all 2,987 cookies? All the cookies must be packed in a box, so round the quotient up 1 to make 498. 498 boxes are needed.

Round it!

Standard Algorithm

$$\begin{array}{r} 0 \ 4 \ 9 \ 7 \ \text{R}5 \\ 6 \overline{) 2,987} \\ \underline{6} \ 2 \ 9 \ 8 \ 7 \\ \underline{2} \ 4 \\ \ 5 \ 8 \\ \ \underline{5} \ 4 \\ \ 4 \ 7 \\ \ \underline{4} \ 2 \\ \ 5 \end{array}$$

D ÷ Divide
M × Multiply
S - Subtract
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R Repeat or Remainder

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MacBook Pro

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Partial Quotients

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400 $6 \times 400 = 2,400$

DETAILED ANSWER KEY

What is the fewest number of boxes needed to hold all 2,987 cookies?

Round it!
All the cookies must be packed in a box, so round the quotient up 1 to make 498. 498 boxes are needed.

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