

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 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!

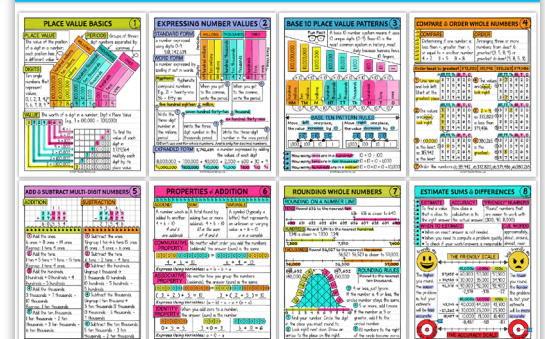
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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!!!

FIFTH 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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A stack of four spiral-bound notebooks with bright, solid-colored covers: blue, green, yellow, and pink. The notebooks are stacked diagonally, showing the silver metal spiral binding on the right side of each cover.

24

Set 5

Area Model

72

Partial Quotients

Drop it!

				1	1	5
7	2	)	8	,	2	9
			5			
			-	7	,	2
				0	0	
				1	,	0
				9	5	
			-	7	2	0
				3	7	5
			-	3	6	0
					1	5

$$72 \times 100 = 7,200$$

$$72 \times 10 = 720$$

$$72 \times 5 = 360$$

Use it!

What is the fewest number of cases needed to hold all 8,295 cookies?

Round it!

Standard Algorithm

Remainder

$$\begin{array}{r} \text{R15} \\ 0 \ 1 \ 1 \ 5 \\ 7 \ 2 \overline{) 8 \ 2 \ 9 \ 5} \\ \underline{- 7 \ 2} \quad \downarrow \quad \downarrow \\ 1 \ 0 \ 9 \quad \downarrow \\ \underline{- 7 \ 2} \quad \downarrow \end{array}$$

GRADE 5

LONG DIVISION & REMAINDERS

[2-DIGIT DIVISOR]

24
Set 5

A baker has 8,295 cookies that he must pack equally into cases. Each case can hold 72 cookies.

Area Model

$$\begin{array}{r} 100 + 10 + 5 = 115 \text{ R}15 \\ 72 \overline{) 8,295} \\ \underline{- 7,200} \\ 1,095 \\ \underline{- 720} \\ 375 \end{array}$$

Partial Quotients

$$\begin{array}{r} 115 \text{ R}15 \\ 7 \overline{) 8,295} \\ \underline{- 7,200} \\ 1,095 \\ \underline{- 720} \\ 375 \end{array}$$

$72 \times 100 = 7,200$
 $72 \times 10 = 720$

How many cases can the baker fill? Ignore the remainder. The quotient is the answer. He can fill 115 boxes.

How many cookies will he have left? The remainder is 15.

LONG DIVISION & REMAINDERS

[2-DIGIT DIVISOR]

24
Set 5

A baker has 8,295 cookies that he must pack equally into cases. Each case can hold 72 cookies.

Area Model

$$\begin{array}{r} 100 + 10 + 5 = 115 \text{ R}15 \\ 72 \overline{) 8,295} \\ \underline{- 7,200} \\ 1,095 \\ \underline{- 720} \\ 375 \end{array}$$

Partial Quotients

$$\begin{array}{r} 115 \text{ R}15 \\ 7 \overline{) 8,295} \\ \underline{- 7,200} \\ 1,095 \\ \underline{- 720} \\ 375 \end{array}$$

$72 \times 100 = 7,200$

How many cases can the baker fill? Ignore the remainder. The quotient is the answer. He can fill 115 boxes.

How many cookies will he have left? The remainder is 15.

2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



round the quotient up 1 to make 116. 116 cases are needed.

B↓ Bring Down
R⊞ Repeat or Remainder

are needed.

R⊞ Repeat or Remainder

$$\begin{array}{r} 375 \\ \underline{- 360} \\ 15 \end{array}$$

STEP-BY-STEP POWERPOINT

LONG DIVISION & REMAINDERS (24) [2-DIGIT DIVISOR]

Area Model

A baker has 8,295 cookies that he must pack equally into cases. Each case can hold 72 cookies.

$$100 + 10 + 5 = 115 \text{ R}15$$

8,295	1,095	375
7200	720	15

How many cases can the baker fill? **Drop it!**

Ignore the remainder; the quotient is the answer. He can fill 115 boxes.

How many cookies will he have left? **Use it!**

The remainder is the answer. He will have 15 cookies left.

Round it!

What is the fewest number of cases needed to hold all 8,295 cookies?

All the cookies must be packed in a case, so round the quotient up 1 to make 116. 116 cases are needed.

Standard Algorithm

	0	1	1	5	R	15
72	8	2	9	5		
D ÷ Divide	-	7	2			
M × Multiply		1	0	9		
S - Subtract			-	7	2	
B ↓ Bring Down				3	7	5
R Repeat or				-	3	6
Remainder						0
						1
						5

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LONG DIVISION & REMAINDERS

[2-DIGIT DIVISOR]

24
Set 5

A baker has 8,295 cookies that he must pack equally into cases. Each case can hold 72 cookies.

Area Model

$$100 + 10 + 5 = 115 \text{ R}15$$

$$\begin{array}{r} 8,295 \\ - 7,200 \\ \hline 1,095 \\ - 720 \\ \hline 375 \\ - 360 \\ \hline 15 \end{array}$$

How many cases can the baker fill? **Drop it!**
Ignore the remainder; the quotient is the answer. He can fill 115 boxes.

$$\begin{array}{r} 115 \text{ R}15 \\ 72 \overline{) 8,295} \\ \underline{- 7,200} \\ 1,095 \\ \underline{- 720} \\ 375 \\ \underline{- 360} \\ 15 \end{array}$$

Partial Quotients

$$100 \leftarrow 72 \times 100 = 7,200$$

DETAILED ANSWER KEY

What is the fewest number of cases needed to hold all 8,295 cookies?

Round it!
All the cookies must be packed in a case, so round the quotient up 1 to make 116. 116 cases are needed.

Standard Algorithm

$$\begin{array}{r} 0115 \text{ R}15 \\ 72 \overline{) 8,295} \\ \underline{- 72} \downarrow \\ 109 \downarrow \\ \underline{- 72} \downarrow \\ 375 \downarrow \\ \underline{- 360} \\ 15 \end{array}$$

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