

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!

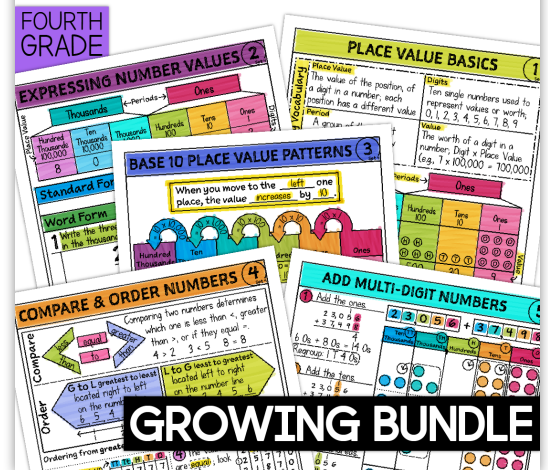
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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 *and* PLACE VALUE 25

Set 4

Key Vocabulary	divisor	dividend	quotient
	The number that divides a given number	The number that is divided by the divisor.	The result of the dividend being divided by the divisor.

$$\begin{array}{r} 245 \\ 3 \overline{) 735} \end{array}$$
 quotient
 divisor dividend

$735 \div 3 = 245$
 dividend $\div$ divisor = quotient

	2	4	5
3	7	3	5
	-6	0	0
	1	3	5
	-1	2	0
		1	5
		-1	5
			0

Hundreds	Tens	Ones
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
● ● ● ● ●	2 3 4 5 ●	1 2 3 4 5
● ● ● ● ●	6 7 8 9 10	6 7 8 9 10

- Divide the hundreds by 3:
 $\underline{1}$ hundreds $\div 3 = \underline{2}$ hundreds
 with $\underline{1}$ hundred left over
- Ungroup the hundred:
 $\underline{1}$ hundred = $\underline{10}$ tens
- Add the tens:
 $\underline{10}$ tens + $\underline{3}$ tens = $\underline{13}$ tens
- Divide the tens by 3:
 $\underline{13}$ tens $\div 3 = \underline{4}$ tens
 with $\underline{1}$ ten left over
- Ungroup the ten:
 $\underline{1}$ ten = $\underline{10}$ ones
- Add the ones:
 $\underline{10}$ ones + $\underline{5}$ ones = $\underline{15}$ ones
- Divide the ones by 3:
 $\underline{15}$ ones $\div 3 = \underline{5}$ ones

GRADE 4

LONG DIVISION *and* PLACE VALUE (25)

Key Vocabulary	divisor	dividend	quotient
	The number that divides a given number	The number that is divided by the divisor.	The result of the dividend being divided by the divisor.
	245 3 735	735	245
	divisor	dividend	quotient
		dividend ÷ divisor = quotient	

Hundreds	Tens	Ones
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
● ● ● ● ●	2 3 4 5	1 2 3

LONG DIVISION *and* PLACE VALUE (25)

Key Vocabulary	divisor	dividend	quotient
	The number that divides a given number	The number that is divided by the divisor.	The result of the dividend being divided by the divisor.
	245 3 735	735	245
	divisor	dividend	quotient
		dividend ÷ divisor = quotient	

Hundreds	Tens	Ones
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
● ● ● ● ●	2 3 4 5	1 2 3

2 SIZES: STANDARD US 8.5 × 11
& COMPOSITION NOTEBOOK

③ Add the tens:

$$10 \text{ tens} + 3 \text{ tens} = 13 \text{ tens}$$

⑥ Add the ones:

$$10 \text{ ones} + 5 \text{ ones} = 15 \text{ ones}$$

⑦ Divide the ones by 3: $15 \text{ ones} \div 3 = 5 \text{ ones}$

⑦ Divide the ones by 3: $15 \text{ ones} \div 3 = 5 \text{ ones}$



(25)

quotient
The result of
the dividend
being divided
by the divisor

The result of the dividend being divided by the divisor

$$\begin{array}{r} 245 \\ 3 \overline{) 735} \\ \underline{-600} \\ 135 \\ \underline{-120} \\ 15 \\ \underline{-15} \\ 0 \end{array}$$

13 tens $\div 3 =$ 4 tens
with 1 ten left over

1 ten = 10 ones

10 ones + 5 ones = 15 ones

⑦ Divide the ones by 3: $\underline{15}$ ones $\div 3 = \underline{5}$ ones

MacBook Pro

LONG DIVISION and PLACE VALUE (25)

Set 4

key
Vocabulary

divisor
The number that divides a given number

dividend
The number that is divided by the divisor.

quotient
The result of the dividend being divided by the divisor.

245
3 735
quotient
divisor

735 ÷ 3 = 245
dividend ÷ divisor = quotient

	2	4	5
3	7	3	5
	-6	0	0
	1	3	5
	-1	2	0
		1	5
		-1	5
			0

Hundreds

Tens

Ones



DETAILED ANSWER KEY

① Divide the hundreds by 3:
1 hundreds ÷ 3 = 2 hundreds
with 1 hundred left over

④ Divide the tens by 3:
13 tens ÷ 3 = 4 tens
with 1 ten left over

② Ungroup the hundred:
1 hundred = 10 tens

⑤ Ungroup the ten:
1 ten = 10 ones

③ Add the tens:
10 tens + 3 tens = 13 tens

⑥ Add the ones:
10 ones + 5 ones = 15 ones

⑦ Divide the ones by 3:
15 ones ÷ 3 = 5 ones