

MATH SKETCH NOTES

MATH SKETCH NOTES

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!

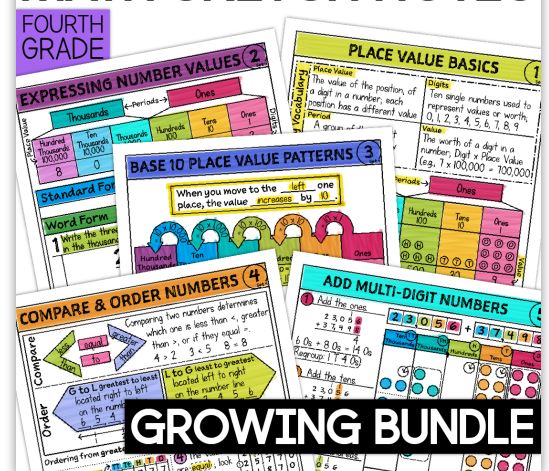
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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

DIVIDE BY POWERS OF 10

32
Set 4

	Ten Thousands	Thousands	Hundreds	Tens	Ones
$23,000 \div 1 = 23,000$	● ●	● ● ● ●			
$23,000 \div 10 = 2,300$		● ●	● ● ● ●		
$23,000 \div 100 = 230$			● ●	● ● ● ●	
$23,000 \div 1,000 = 23$				● ●	● ● ● ●

Shift
Patterns

$\div 10$

$23,000 \div 10 = 2,300$
 10: Move each digit 1 place to the right

$\div 100$

$23,000 \div 100 = 230$
 100: Move each digit 2 places to the right

$\div 1,000$

$23,000 \div 1,000 = 23$
 1,000: Move each digit 3 places to the right

<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th style="background-color: #ff00ff;">T</th> <th style="background-color: #00a0e3;">T</th> <th style="background-color: #90c090;">H</th> <th style="background-color: #ffcc00;">T</th> <th style="background-color: #ff00ff;">O</th> </tr> </thead> <tbody> <tr> <td>$83,000 \div 1 = 83,000$</td> <td>8</td> <td>3</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>$83,000 \div 10 = 8,300$</td> <td></td> <td>8</td> <td>3</td> <td>0</td> <td>0</td> </tr> <tr> <td>$83,000 \div 100 = 830$</td> <td></td> <td></td> <td>8</td> <td>3</td> <td>0</td> </tr> <tr> <td>$83,000 \div 1,000 = 83$</td> <td></td> <td></td> <td></td> <td>8</td> <td>3</td> </tr> </tbody> </table>		T	T	H	T	O	$83,000 \div 1 = 83,000$	8	3	0	0	0	$83,000 \div 10 = 8,300$		8	3	0	0	$83,000 \div 100 = 830$			8	3	0	$83,000 \div 1,000 = 83$				8	3	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th></th> <th style="background-color: #ff00ff;">H</th> <th style="background-color: #00a0e3;">T</th> <th style="background-color: #90c090;">T</th> <th style="background-color: #ffcc00;">H</th> <th style="background-color: #ff00ff;">T</th> <th style="background-color: #ff00ff;">O</th> </tr> </thead> <tbody> <tr> <td>$256,000 \div 1 = 256,000$</td> <td>2</td> <td>5</td> <td>6</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>$256,000 \div 10 = 25,600$</td> <td></td> <td>2</td> <td>5</td> <td>6</td> <td>0</td> <td>0</td> </tr> <tr> <td>$256,000 \div 100 = 2,560$</td> <td></td> <td></td> <td>2</td> <td>5</td> <td>6</td> <td>0</td> </tr> <tr> <td>$256,000 \div 1,000 = 256$</td> <td></td> <td></td> <td></td> <td>2</td> <td>5</td> <td>6</td> </tr> </tbody> </table>		H	T	T	H	T	O	$256,000 \div 1 = 256,000$	2	5	6	0	0	0	$256,000 \div 10 = 25,600$		2	5	6	0	0	$256,000 \div 100 = 2,560$			2	5	6	0	$256,000 \div 1,000 = 256$				2	5	6
	T	T	H	T	O																																																													
$83,000 \div 1 = 83,000$	8	3	0	0	0																																																													
$83,000 \div 10 = 8,300$		8	3	0	0																																																													
$83,000 \div 100 = 830$			8	3	0																																																													
$83,000 \div 1,000 = 83$				8	3																																																													
	H	T	T	H	T	O																																																												
$256,000 \div 1 = 256,000$	2	5	6	0	0	0																																																												
$256,000 \div 10 = 25,600$		2	5	6	0	0																																																												
$256,000 \div 100 = 2,560$			2	5	6	0																																																												
$256,000 \div 1,000 = 256$				2	5	6																																																												

$90,000 \div 10 = 9,000$	$160,000 \div 10 = 16,000$	$5,000 \div 1 = 5,000$
$90,000 \div 100 = 900$	$160,000 \div 100 = 1,600$	
$90,000 \div 1,000 = 90$	$160,000 \div 1,000 = 160$	
$90,000 \div 10,000 = 9$	$160,000 \div 10,000 = 16$	$5,000 \div 1,000 = 5$

GRADE 4

DIVIDE BY POWERS OF 10 32 Set 4

	Ten Thousands	Thousands	Hundreds	Tens	Ones
23,000					
÷ 1 = 23,000	● ●	● ● ● ●			
÷ 10 = 2,300		● ●	● ● ● ●		
÷ 100 = 230			● ●	● ● ● ●	
÷ 1,000 = 23				● ●	● ●

Shift Patterns

÷ 10

÷ 100

$23,000 \div 10 = 2,300$
10: Move each digit 1 place to the right

$23,000 \div 100 = 230$
100: Move each digit 2 places to the right

$23,000 \div 1,000 = 23$
1,000: Move each digit 3 places to the right

DIVIDE BY POWERS OF 10 32 Set 4

	Ten Thousands	Thousands	Hundreds	Tens	Ones
23,000					
÷ 1 = 23,000	● ●	● ● ● ●			
÷ 10 = 2,300		● ●	● ● ● ●		
÷ 100 = 230			● ●	● ● ● ●	
÷ 1,000 = 23				● ●	● ●

Shift Patterns

÷ 10

÷ 100

$23,000 \div 10 = 2,300$
10: Move each digit 1 place to the right

$23,000 \div 100 = 230$
100: Move each digit 2 places to the right

$23,000 \div 1,000 = 23$
1,000: Move each digit 3 places to the right

2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



$10,000 \div 10 = 1,000$	$100,000 \div 10 = 10,000$	$5,000 \div 10 = 500$
$90,000 \div 100 = 900$	$160,000 \div 100 = 1,600$	$5,000 \div 100 = 50$
$90,000 \div 1,000 = 90$	$160,000 \div 1,000 = 160$	$5,000 \div 1,000 = 5$
$90,000 \div 10,000 = 9$	$160,000 \div 10,000 = 16$	$5,000 \div 10,000 = 0.5$

STEP-BY-STEP POWERPOINT

DIVIDE BY POWERS OF 10 32 Set 1

	Ten Thousands	Thousands	Hundreds	Tens	Ones
23,000	●	●●			
÷ 1 = 23,000	●	●●			
÷ 10 = 2,300		●●	●●●		
			●●●	●●●	●●

$10 = 2,300$
 digit 1 place to the right,
 $100 = 230$
 digit 2 places to the right,
 $1,000 = 23$
 digit 3 places to the right

	TT	TH	H	T	O
83,000 ÷ 1 =	8	3	0	0	0
83,000 ÷ 10 =	8	3	0	0	0
83,000 ÷ 100 =	8	3	0		
83,000 ÷ 1,000 =	8	3			

	HT	TT	TH	H	T	O
256,000 ÷ 1 =	2	5	6	0	0	0
256,000 ÷ 10 =	2	5	6	0	0	0
256,000 ÷ 100 =	2	5	6	0		
256,000 ÷ 1,000 =	2	5	6			

90,000 ÷ 10 = 9,000	160,000 ÷ 10 = 16,000	5,000 ÷ 1 = 5,000
90,000 ÷ 100 = 900	160,000 ÷ 100 = 1,600	5,000 ÷ 10 = 500
90,000 ÷ 1,000 = 90	160,000 ÷ 1,000 = 160	5,000 ÷ 100 = 50
90,000 ÷ 10,000 = 9	160,000 ÷ 10,000 = 16	5,000 ÷ 1,000 = 5

©2023 TeacherThrive.com



DIVIDE BY POWERS OF 10

32

Set 4

	Ten ^{TT} Thousands	Thousands TH	Hundreds ^H	Tens ^T	Ones ^O
23,000	○ ○	○ ○ ○			
÷ 1 = 23,000					
÷ 10 = 2,300		○ ○	○ ○ ○		
÷ 100 = 230			○ ○	○ ○ ○	
÷ 1,000 = 23				○ ○	○ ○ ○

Shift Patterns

÷ 10

23,000 ÷ 10 = 2,300
10: Move each digit 1 place to the right

÷ 100

÷ 1,000

DETAILED ANSWER KEY

83,000 ÷ 1 = 83,000	83,000 ÷ 10 = 8,300	83,000 ÷ 100 = 830	83,000 ÷ 1,000 = 83
256,000 ÷ 1 = 256,000	256,000 ÷ 10 = 25,600	256,000 ÷ 100 = 2,560	256,000 ÷ 1,000 = 256
90,000 ÷ 10 = 9,000	90,000 ÷ 100 = 900	90,000 ÷ 1,000 = 90	90,000 ÷ 10,000 = 9
160,000 ÷ 10 = 16,000	160,000 ÷ 100 = 1,600	160,000 ÷ 1,000 = 160	160,000 ÷ 10,000 = 16
5,000 ÷ 1 = 5,000	5,000 ÷ 10 = 500	5,000 ÷ 100 = 50	5,000 ÷ 1,000 = 5