

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!

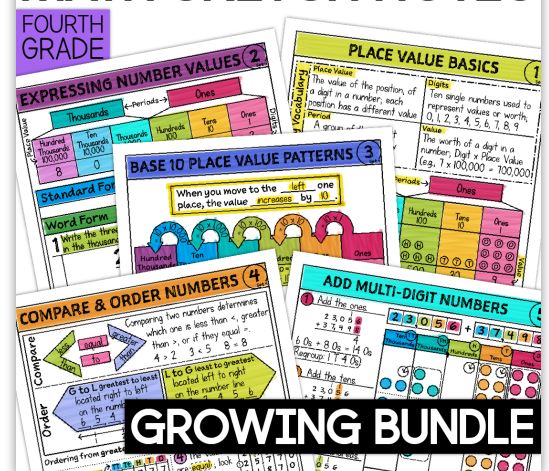
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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

MULTIPLICATION ALGORITHM [1-DIGIT] 19

Set 4

The fish pond holds 2,476 gallons of water. The frog pond holds 3 times as much water as the fish pond. How many gallons are in the frog pond?

1 Multiply the ones by 3

$$\begin{array}{r} 2,47\overset{1}{\underset{\cdot}{6}} \\ \times \quad \quad \underset{\cdot}{3} \\ \hline \quad \quad \quad 8 \end{array}$$

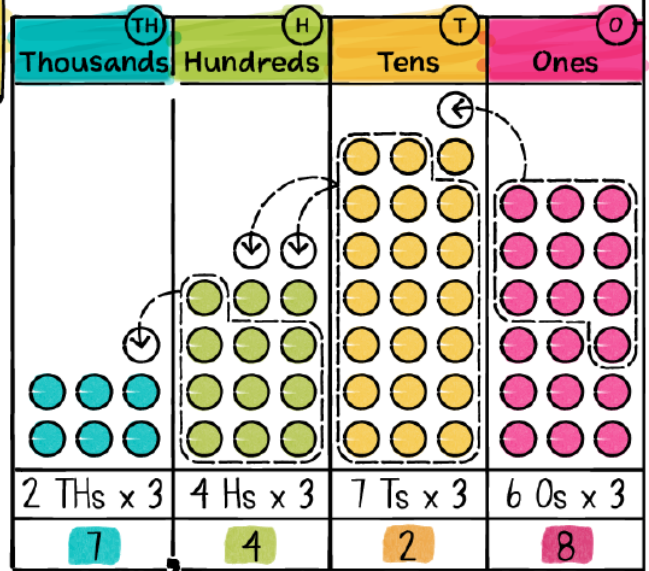
$3 \times 6 \text{ Os} = 18 \text{ Os}$
(Regroup: 1 T 8 Os)

2 Multiply the tens by 3

$$\begin{array}{r} 2,4\overset{2}{\underset{\cdot}{7}}\overset{1}{\underset{\cdot}{6}} \\ \times \quad \quad \quad \underset{\cdot}{3} \\ \hline \quad \quad 28 \end{array}$$

$3 \times 7 \text{ Ts} = 21 \text{ Ts}$
Add the tens:
 $21 \text{ Ts} + 1 \text{ T} = 22 \text{ Ts}$
(Regroup: 2 Hs 2 Ts)

$$\boxed{2}, \boxed{4}, \boxed{7}, \boxed{6} \times \boxed{3} = \boxed{7}, \boxed{4}, \boxed{2}, \boxed{8}$$



3 Multiply the hundreds by 3

$$\begin{array}{r} \overset{1}{2}, \overset{2}{4}, \overset{1}{7}\overset{1}{6} \\ \times \quad \quad \quad \underset{\cdot}{3} \\ \hline \quad \quad 428 \end{array}$$

$3 \times 4 \text{ Hs} = 12 \text{ Hs}$
Add the hundreds:
 $12 \text{ Hs} + 2 \text{ Hs} = 14 \text{ Hs}$
(Regroup: 1 TH 4 Hs)

4 Multiply the thousands by 3

$$\begin{array}{r} \overset{1}{2}, \overset{2}{4}, \overset{1}{7}\overset{1}{6} \\ \times \quad \quad \quad \underset{\cdot}{3} \\ \hline 7,428 \end{array}$$

$3 \times 2 \text{ THs} = 6 \text{ THs}$

GRADE 4

MULTIPLICATION ALGORITHM [1-DIGIT] 19

The fish pond holds 2,476 gallons of water. The frog pond holds 3 times as much water as the fish pond. How many gallons are in the frog pond?

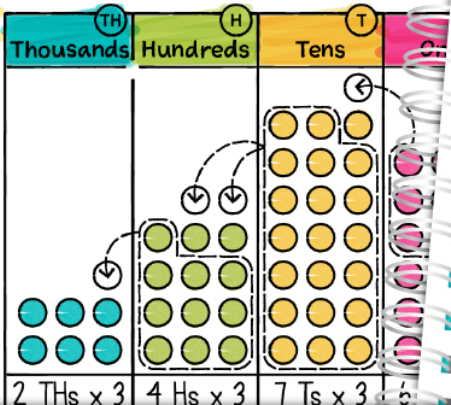
1 Multiply the ones by 3

$$\begin{array}{r} 2,476 \\ \times 3 \\ \hline 8 \end{array}$$

$$3 \times 6 \text{ Os} = 18 \text{ Os}$$

(Regroup: 1 T 8 Os)

$$2,476 \times 3 = 7,428$$

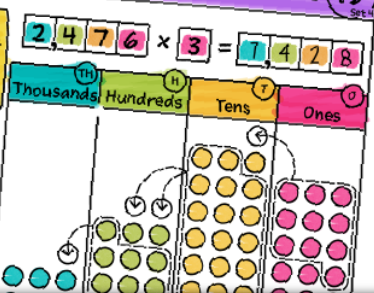


MULTIPLICATION ALGORITHM [1-DIGIT] 19

The fish pond holds 2,476 gallons of water. The frog pond holds 3 times as much water as the fish pond. How many gallons are in the frog pond?

1 Multiply the ones by 3

$$\begin{array}{r} 2,476 \\ \times 3 \\ \hline 8 \end{array}$$



2 SIZES: STANDARD US 8.5 x 11 & COMPOSITION NOTEBOOK



$$21 \text{ Ts} + 1 \text{ T} = 22 \text{ Ts}$$

Add the tens:

$$21 \text{ Ts} + 1 \text{ T} = 22 \text{ Ts}$$

(Regroup: 2 Hs 2 Ts)

$$12 \text{ Hs} + 2 \text{ Hs} = 14 \text{ Hs}$$

Add the hundreds:

$$12 \text{ Hs} + 2 \text{ Hs} = 14 \text{ Hs}$$

(Regroup: 1 TH 4 Hs)

$$6 \text{ THs} + 1 \text{ TH} = 7 \text{ THs}$$

Add the thousands:

$$6 \text{ THs} + 1 \text{ TH} = 7 \text{ THs}$$

(Regroup: 1 TH 4 Hs)

$$21 \text{ Ts} + 1 \text{ T} = 22 \text{ Ts}$$

(Regroup: 2 Hs 2 Ts)

$$12 \text{ Hs} + 2 \text{ Hs} = 14 \text{ Hs}$$

(Regroup: 1 TH 4 Hs)

$$6 \text{ THs} + 1 \text{ TH} = 7 \text{ THs}$$

Add the thousands:

$$6 \text{ THs} + 1 \text{ TH} = 7 \text{ THs}$$

(Regroup: 1 TH 4 Hs)

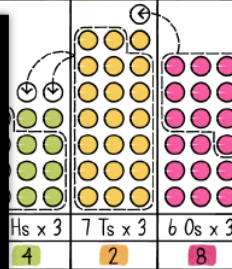
STEP-BY-STEP POWERPOINT

MULTIPLICATION ALGORITHM [1-DIGIT] 19

The fish pond holds 2,476 gallons of water. The frog pond holds 3 times as much water as the fish pond. How many gallons are there?

$$\begin{array}{r} 2476 \\ \times 3 \\ \hline \end{array}$$

Thousands Hundreds Tens Ones



2 Multiply the tens by 3

$$\begin{array}{r} 2476 \\ \times 3 \\ \hline 28 \end{array}$$

$3 \times 7 \text{ Ts} = 21 \text{ Ts}$
Add the tens:
 $21 \text{ Ts} + 1 \text{ T} = 22 \text{ Ts}$
(Regroup: 2 Hs 2 Ts)

3 Multiply the hundreds by 3

$$\begin{array}{r} 2476 \\ \times 3 \\ \hline 428 \end{array}$$

$3 \times 4 \text{ Hs} = 12 \text{ Hs}$
Add the hundreds:
 $12 \text{ Hs} + 2 \text{ Hs} = 14 \text{ Hs}$
(Regroup: 1 TH 4 Hs)

4 Multiply the thousands by 3

$$\begin{array}{r} 2476 \\ \times 3 \\ \hline 7428 \end{array}$$

$3 \times 2 \text{ THs} = 6 \text{ THs}$
Add the thousands:
 $6 \text{ THs} + 1 \text{ TH} = 7 \text{ TH}$

©2023-TeacherThrive.com

MacBook Pro

MULTIPLICATION ALGORITHM [1-DIGIT] 19

Set 4

The fish pond holds 2,476 gallons of water. The frog pond holds 3 times as much water as the fish pond. How many gallons are in the frog pond?

$$2,476 \times 3 = 7,428$$

Thousands (TH)	Hundreds (H)	Tens (T)	Ones (O)

1 Multiply the ones by 3

$$\begin{array}{r} 2,476 \\ \times 3 \\ \hline \end{array}$$

$3 \times 6 \text{ Os} = 18$
(Regroup: 1 T)

2 Multiply the tens by 3

$$\begin{array}{r} 2,476 \\ \times 3 \\ \hline 28 \end{array}$$

$3 \times 7 \text{ Ts} = 21 \text{ Ts}$
Add the tens:
 $21 \text{ Ts} + 1 \text{ T} = 22 \text{ Ts}$
(Regroup: 2 Hs 2 Ts)

3 Multiply the hundreds by 3

$$\begin{array}{r} 2,476 \\ \times 3 \\ \hline 428 \end{array}$$

$3 \times 4 \text{ Hs} = 12 \text{ Hs}$
Add the hundreds:
 $12 \text{ Hs} + 2 \text{ Hs} = 14 \text{ Hs}$
(Regroup: 1 TH 4 Hs)

4 Multiply the thousands by 3

$$\begin{array}{r} 2,476 \\ \times 3 \\ \hline 7,428 \end{array}$$

$3 \times 2 \text{ THs} = 6 \text{ THs}$
Add the thousands:
 $6 \text{ THs} + 1 \text{ TH} = 7 \text{ TH}$

DETAILED ANSWER KEY