

# 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 × 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!

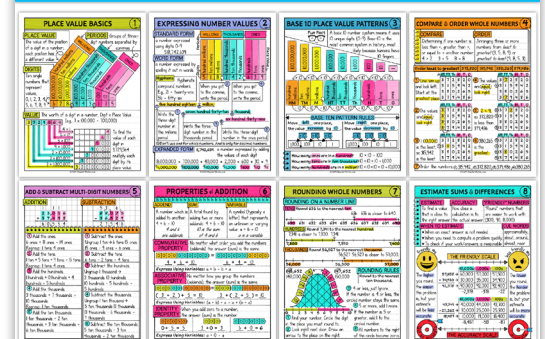
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

## 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

# MATH SKETCH NOTES

## GREATEST COMMON FACTOR

**33**  
Set 5

Let's take a look at

Greatest

G

Common

C

Factor

F

**T-CHART METHOD**

| product |        |
|---------|--------|
| factor  | factor |
| factor  | factor |

List all factor pairs.

|   | 36 |
|---|----|
| 1 | 36 |
| 2 | 18 |
| 3 | 12 |
| 4 | 9  |
| 6 | 6  |

|   | 48 |
|---|----|
| 1 | 48 |
| 2 | 24 |
| 3 | 16 |
| 4 | 12 |
| 6 | 8  |

① Starting with 1 and the product, list the factor pairs in numerical order.

② Circle all of the common factors.

③ Find the greatest factor that the two numbers have in common.

**Real-World Example**

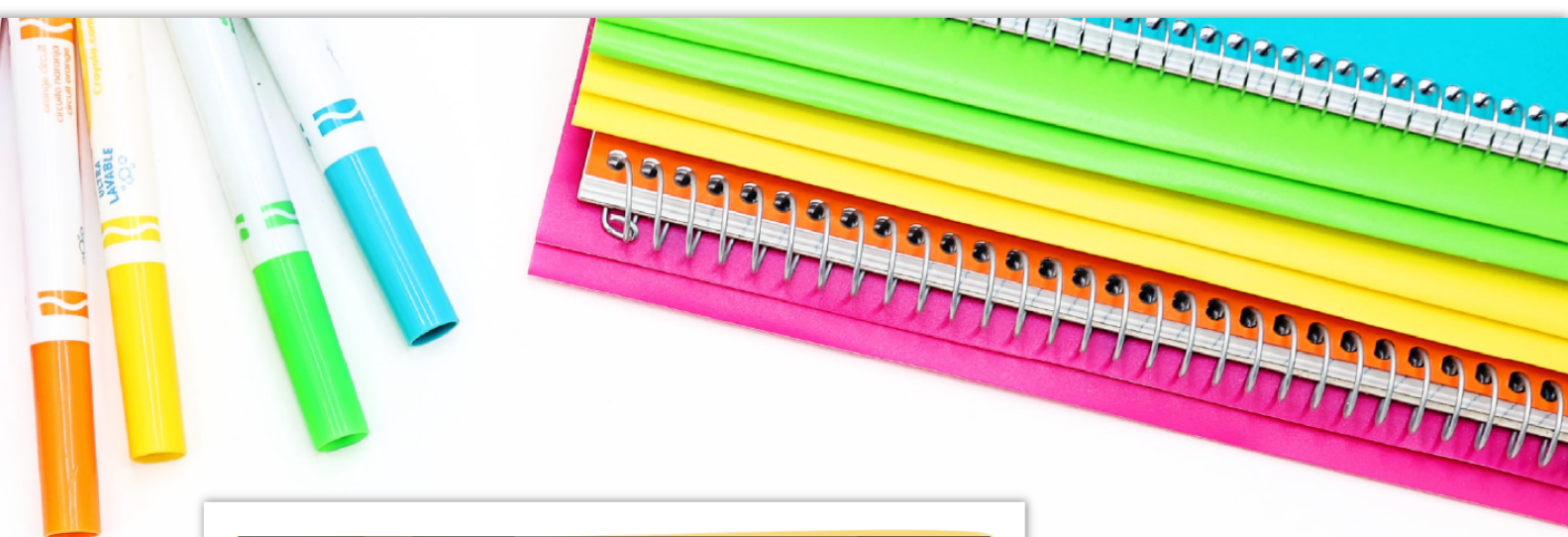
Lou baked 36 cookies and 48 brownies to make dessert boxes to sell. The content of the boxes must be identical. What is the greatest number of dessert boxes he can make? He can make 12 boxes.

**FIND THE GCF FOR...**

| 8 and 6                                                                                                                                                                                                                | 21 and 35 | 12 and 20 |    |   |   |   |   |   |                                                                                                                                                                                                                            |   |    |   |    |   |   |   |   |                                                                                                                                                                                                                                                                               |   |    |   |    |   |   |   |    |   |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|----|---|---|---|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|----|---|---|---|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----|---|----|---|---|---|----|---|---|---|---|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1</td><td>8</td><td>1</td><td>6</td></tr> <tr><td>2</td><td>4</td><td>2</td><td>3</td></tr> </table> <p>The GCF of 8 and 6 is <u>2</u>.</p> | 1         | 8         | 1  | 6 | 2 | 4 | 2 | 3 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1</td><td>21</td><td>1</td><td>35</td></tr> <tr><td>3</td><td>7</td><td>5</td><td>7</td></tr> </table> <p>The GCF of 21 and 35 is <u>7</u>.</p> | 1 | 21 | 1 | 35 | 3 | 7 | 5 | 7 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1</td><td>12</td><td>1</td><td>20</td></tr> <tr><td>2</td><td>6</td><td>2</td><td>10</td></tr> <tr><td>3</td><td>4</td><td>4</td><td>5</td></tr> </table> <p>The GCF of 12 and 20 is <u>4</u>.</p> | 1 | 12 | 1 | 20 | 2 | 6 | 2 | 10 | 3 | 4 | 4 | 5 |
| 1                                                                                                                                                                                                                      | 8         | 1         | 6  |   |   |   |   |   |                                                                                                                                                                                                                            |   |    |   |    |   |   |   |   |                                                                                                                                                                                                                                                                               |   |    |   |    |   |   |   |    |   |   |   |   |
| 2                                                                                                                                                                                                                      | 4         | 2         | 3  |   |   |   |   |   |                                                                                                                                                                                                                            |   |    |   |    |   |   |   |   |                                                                                                                                                                                                                                                                               |   |    |   |    |   |   |   |    |   |   |   |   |
| 1                                                                                                                                                                                                                      | 21        | 1         | 35 |   |   |   |   |   |                                                                                                                                                                                                                            |   |    |   |    |   |   |   |   |                                                                                                                                                                                                                                                                               |   |    |   |    |   |   |   |    |   |   |   |   |
| 3                                                                                                                                                                                                                      | 7         | 5         | 7  |   |   |   |   |   |                                                                                                                                                                                                                            |   |    |   |    |   |   |   |   |                                                                                                                                                                                                                                                                               |   |    |   |    |   |   |   |    |   |   |   |   |
| 1                                                                                                                                                                                                                      | 12        | 1         | 20 |   |   |   |   |   |                                                                                                                                                                                                                            |   |    |   |    |   |   |   |   |                                                                                                                                                                                                                                                                               |   |    |   |    |   |   |   |    |   |   |   |   |
| 2                                                                                                                                                                                                                      | 6         | 2         | 10 |   |   |   |   |   |                                                                                                                                                                                                                            |   |    |   |    |   |   |   |   |                                                                                                                                                                                                                                                                               |   |    |   |    |   |   |   |    |   |   |   |   |
| 3                                                                                                                                                                                                                      | 4         | 4         | 5  |   |   |   |   |   |                                                                                                                                                                                                                            |   |    |   |    |   |   |   |   |                                                                                                                                                                                                                                                                               |   |    |   |    |   |   |   |    |   |   |   |   |

| 32 and 16                                                                                                                                                                                                                                                                      |    |    |    |    |   |    |   |   |   |   |   |   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----|---|----|---|---|---|---|---|---|
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1</td><td>32</td><td>1</td><td>16</td></tr> <tr><td>2</td><td>16</td><td>2</td><td>8</td></tr> <tr><td>4</td><td>8</td><td>4</td><td>4</td></tr> </table> <p>The GCF of 32 and 16 is <u>16</u>.</p> | 1  | 32 | 1  | 16 | 2 | 16 | 2 | 8 | 4 | 8 | 4 | 4 |
| 1                                                                                                                                                                                                                                                                              | 32 | 1  | 16 |    |   |    |   |   |   |   |   |   |
| 2                                                                                                                                                                                                                                                                              | 16 | 2  | 8  |    |   |    |   |   |   |   |   |   |
| 4                                                                                                                                                                                                                                                                              | 8  | 4  | 4  |    |   |    |   |   |   |   |   |   |

GRADE 5



**GREATEST COMMON FACTOR** 33 Set 5

Let's take a look at

**Greatest Common Factor**

**T-CHART METHOD**

product

factor × factor

factor × factor

List all factor pairs.

1 36  
2 18  
3 12  
4 9  
6 6

1 Starting with 1 and the product, list the factor pairs in numerical order.  
2 Circle all of the common factors.  
3 Find the greatest factor that the two numbers have in common.

**Real-World Example** Lou baked 36 cookies and 48 brownies to make dessert boxes to sell. The content of the boxes must be identical. What is the greatest number of boxes Lou can make?

**GREATEST COMMON FACTOR** 33 Set 5

Let's take a look at

**Greatest Common Factor**

**T-CHART METHOD**

product

factor × factor

factor × factor

List all factor pairs.

1 36 1 48  
2 18 2 24  
3 12 3 16  
4 9 4 12  
6 6 6 8

1 Starting with 1 and the product, list the factor pairs in numerical order.  
2 Circle all of the common factors.  
3 Find the greatest factor that the two numbers have in common.

**Real-World Example** Lou baked 36 cookies and 48 brownies to make dessert boxes to sell. The content of the boxes must be identical. What is the greatest number of boxes Lou can make?

**2 SIZES: STANDARD US 8.5 × 11  
& COMPOSITION NOTEBOOK**



|                                  |                                    |                                    |                                     |
|----------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| The GCF of 8 and 6 is <u>2</u> . | The GCF of 21 and 35 is <u>7</u> . | The GCF of 12 and 20 is <u>4</u> . | The GCF of 32 and 16 is <u>16</u> . |
|----------------------------------|------------------------------------|------------------------------------|-------------------------------------|

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# STEP-BY-STEP POWERPOINT

**GREATEST COMMON FACTOR** 33

Let's take a look at

**T-CHART METHOD**

| factor | product | factor |
|--------|---------|--------|
| 1      | 36      | 1      |
| 2      | 18      | 2      |
| 3      | 12      | 3      |
| 4      | 9       | 4      |
| 6      | 6       | 6      |

factor pairs. 36 and 48 brownies to make

Find the greatest factor that the two numbers have in common.

The content of the boxes is the greatest number of boxes he can make. He can make 12 boxes.

**FIND THE GCF FOR...**

| 8 and 6                          | 21 and 35                          | 12 and 20                          | 32 and 16                           |
|----------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| 8<br>6<br>4<br>3                 | 21<br>35<br>7<br>5                 | 12<br>20<br>6<br>10<br>4<br>5      | 32<br>16<br>16<br>8<br>4<br>4       |
| The GCF of 8 and 6 is <u>2</u> . | The GCF of 21 and 35 is <u>7</u> . | The GCF of 12 and 20 is <u>4</u> . | The GCF of 32 and 16 is <u>16</u> . |



# GREATEST COMMON FACTOR

33

Set 5

Let's take a look at

**G**reatest  
**C**ommon  
**F**actor

T-CHART METHOD

product

factor  
factor

factor  
factor

List all factor pairs.

36

48

|   |    |   |    |
|---|----|---|----|
| 1 | 36 | 1 | 48 |
| 2 | 18 | 2 | 24 |
| 3 | 12 | 3 | 16 |
| 4 | 9  | 4 | 12 |
| 6 | 6  | 6 | 8  |

- Starting with 1 and the product, list the factor pairs in numerical order.
- Circle all of the common factors.
- Find the greatest factor that the two numbers have in common.

Real-World

Lou baked 36 cookies.

Example

|   |   |    |    |    |    |    |    |
|---|---|----|----|----|----|----|----|
| 8 | 6 | 21 | 35 | 12 | 20 | 32 | 16 |
| 1 | 8 | 1  | 21 | 1  | 12 | 1  | 32 |
| 2 | 4 | 3  | 7  | 2  | 6  | 2  | 16 |
|   |   | 5  | 5  | 4  | 4  | 4  | 8  |
|   |   |    |    |    |    |    | 4  |

FIND THE GCF FOR...

|                                  |                                    |                                    |                                     |
|----------------------------------|------------------------------------|------------------------------------|-------------------------------------|
| 8 and 6                          | 21 and 35                          | 12 and 20                          | 32 and 16                           |
| 1 8 1 6<br>2 4 2 3               | 1 21 1 35<br>3 7 5 7               | 1 12 1 20<br>2 6 2 10<br>3 4 4 5   | 1 32 1 16<br>2 16 2 8<br>4 8 4 4    |
| The GCF of 8 and 6 is <u>2</u> . | The GCF of 21 and 35 is <u>7</u> . | The GCF of 12 and 20 is <u>4</u> . | The GCF of 32 and 16 is <u>16</u> . |

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