

MATH SKETCH NOTES

GCF and LCM: LADDER METHOD 14 Set 6

Greatest **C**ommon **F**actor & **L**east **C**ommon **M**ultiple



② Find a prime factor of both numbers inside of the "ladder" and divide.

④ Keep dividing by prime factors until the quotients' only common factor is one.

2 | 40 72

2 | 20 36

2 | 10 18

5

9

① Draw a "rung" and write the numbers inside.

③ Write the quotients below each number and draw another "rung."

1 is the only common factor of 5 and 9.

FINDING THE GCF: 8

Multiply all of the factors on the left side.

$2 \cdot 2 \cdot 2$

FINDING THE LCM: 360

Multiply all of the factors on the left side and the bottom.

$2 \cdot 2 \cdot 2 \cdot 5 \cdot 9$

YOUR TURN!

2	36	48
2	18	24
3	9	12
3	4	

GCF: 12
LCM: 144

2	56	24
2	28	12
2	14	6
7	3	

GCF: 8
LCM: 168

3	45	63
3	15	21
5	7	

GCF: 9
LCM: 315

2	36	48	60
2	18	24	30
3	9	12	15

LCM: 720

GRADE 6

STEP-BY-STEP POWERPOINT

GCF and LCM: LADDER METHOD (14)

GCF & **LCM**

72

36

18

9

1 Draw a "rung" and write the numbers inside.

2 Write the quotients below each number and draw another "rung."

3 1 is the only common factor of 5 and 9.

ENDING THE LCM: 360

Multiply all of the factors on the left side.

2 · 2 · 2

Multiply all of the factors on the left side and the bottom.

2 · 2 · 2 · 5 · 9

YOUR TURN!

2	36	48
2	18	24
3	9	12
3	4	

GCF: 12
LCM: 144

2	56	24
2	28	12
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3	45	63
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GCF: 9
LCM: 315

2	36	48	60
2	18	24	30
3	9	12	15
3	4	5	

GCF: 12
LCM: 720

MacBook Pro

GCF and LCM: LADDER METHOD 14

GCF & **LCM**

Greatest Common Factor & Least Common Multiple



2 Find a prime factor of both numbers inside of the "ladder" and divide.

4 Keep dividing by prime factors until the quotients' only common factor is one.

2 40 72
2 20 36
2 10 18
5 9

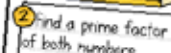
1 Draw a "rung" and write the numbers inside.

3 Write the quotients below each number and divide another factor of 5. 1 is the only factor of 5.

GCF and LCM: LADDER METHOD 14

GCF & **LCM**

Greatest Common Factor & Least Common Multiple



2 Find a prime factor of both numbers inside of the "ladder" and divide.

2 40 72
2 20 36
2 10 18

1 Draw a "rung" and write the numbers inside.
2 Write the quotients below each number and draw

2 SIZES: STANDARD US 8.5 × 11
& COMPOSITION NOTEBOOK



GCF: 12
LCM: 144

GCF: 8
LCM: 168

GCF: 9
LCM: 315

GCF: 12
LCM: 144

GCF: 8
LCM: 168

GCF: 9
LCM: 315

GCF: 12
LCM: 720

GCF and LCM: LADDER METHOD (14)

Greatest Common Factor & Least Common Multiple

② Find a prime factor of both numbers inside of the "ladder" and divide.

$$\begin{array}{r} 2 \overline{) 40 \ 72} \\ 2 \overline{) 20 \ 36} \\ 2 \overline{) 10 \ 18} \end{array}$$

① Draw a "rung" and write the numbers inside.

③ Write the quotients below each

④ Keep dividing by prime factors the quotients' common factor

FINDING THE

Multiply all of factors on the

$$2 \cdot 2 \cdot 2$$

the left side and the bottom

$$2 \cdot 2 \cdot 2 \cdot 5 \cdot 9$$

YOUR TURN!

$$\begin{array}{r} 2 \overline{) 36 \ 48} \\ 2 \overline{) 18 \ 24} \\ 3 \overline{) 9 \ 12} \\ 3 \ 4 \end{array}$$

GCF: 12
LCM: 144

$$\begin{array}{r} 2 \overline{) 56 \ 24} \\ 2 \overline{) 28 \ 12} \\ 2 \overline{) 14 \ 6} \\ 7 \ 3 \end{array}$$

GCF: 8
LCM: 168

$$\begin{array}{r} 3 \overline{) 45 \ 63} \\ 3 \overline{) 15 \ 21} \\ 5 \ 7 \end{array}$$

GCF: 9
LCM: 315

$$\begin{array}{r} 2 \overline{) 36 \ 48 \ 60} \\ 2 \overline{) 18 \ 24 \ 30} \\ 3 \overline{) 9 \ 12 \ 15} \\ 3 \ 4 \ 5 \end{array}$$

GCF: 12
LCM: 720

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MATH SKETCH NOTES

MATH SKETCH NOTES

These 6th-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!

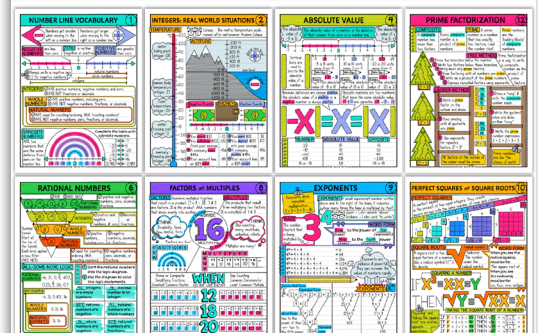
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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!!!

SIXTH GRADE MATH GUIDED SKETCH NOTES



GROWING BUNDLE