

MATH SKETCH NOTES

EXPONENTS

9 Set 6

Exponents show repeated multiplication.
 $3 \times 3 \times 3 \times 3 = 81$

EXPONENT A small superscript number written above and to the right of the base; It indicates how many times the base is multiplied by itself.

Fun Fact Super = Latin adverb "above."
Scribere = Latin verb "to write".

BASE The number (factor) that is being multiplied by itself

WORD FORM three to the power of four
(base) (exponent)
three to the fourth power
(base) (exponent)

$4^2 = 4 \times 4 = 16$
 $4^3 = 4 \times 4 \times 4 = 64$
 $4^4 = 4 \times 4 \times 4 \times 4 = 256$
 $4^5 = 4 \times 4 \times 4 \times 4 \times 4 = 1,024$
 $4^6 = 4 \times 4 \times 4 \times 4 \times 4 \times 4 = 4,096$
 $4^7 = 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 = 16,384$

Exponents are explosive & powerful!
They can increase the values of numbers rapidly.

Exponential Form
 $2^5 = 2 \times 2 \times 2 \times 2 \times 2$
Expanded Form
 4×2
Word Form 8 x 2
two to the power of five
-or- two to the fifth power
Standard Form 32

EXPONENTS X^n
 $5^4 = 5 \times 5 \times 5 \times 5$
 25×5
 125×5
 625
 $3^5 = 3 \times 3 \times 3 \times 3 \times 3$
 9×3
 27×3
 243

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WORD FORM
 three (base) to the power of four (exponent)
 three (base) to the fourth power (exponent)

$4^2 = 4 \times 4 = 16$
 $4^3 = 4 \times 4 \times 4 = 64$
 $4^4 = 4 \times 4 \times 4 \times 4 = 256$
 $4^5 = 4 \times 4 \times 4 \times 4 \times 4 = 1,024$
 $4^6 = 4 \times 4 \times 4 \times 4 \times 4 \times 4 = 4,096$

Exponents are explosive & powerful! They can increase things quickly!

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 three (base) to the power of four (exponent)
 three (base) to the fourth power (exponent)

$4^2 = 4 \times 4 = 16$
 $4^3 = 4 \times 4 \times 4 = 64$
 $4^4 = 4 \times 4 \times 4 \times 4 = 256$

2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



Word form: two to the power of five
 -or- two to the fifth power

Standard Form: $16 \times 2 = 32$

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Word form: two to the power of five
 -or- two to the fifth power

Standard Form: $125 \times 5 = 625$

Word form: two to the power of five
 -or- two to the fifth power

Standard Form: $32 \times 2 = 64$

Word form: two to the power of five
 -or- two to the fifth power

Standard Form: 625

Word form: two to the power of five
 -or- two to the fifth power

Standard Form: $81 \times 3 = 243$

STEP-BY-STEP POWERPOINT

EXPONENTS 9

Exponents show repeated multiplication.
 $3 \times 3 \times 3 \times 3 = 81$

EXPONENT A small superscript number written above and to the right of the base, it indicates how many times the base is multiplied by itself.

Fun Fact Super - Latin adverb "above."
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WORD FORM

to the power of four (exponent)
to the fourth power (exponent)

Exponents are explosive & powerful!
They can increase the values of numbers rapidly.

EXPONENTS x^n

Exponential Form	Expanded Form	Standard Form
2^5	$2 \times 2 \times 2 \times 2 \times 2$	32
5^4	$5 \times 5 \times 5 \times 5$	625
3^5	$3 \times 3 \times 3 \times 3 \times 3$	243

EXPONENTS

9

Set 6

Exponents show repeated multiplication.

$$3 \times 3 \times 3 \times 3 = 81$$

BASE

The number (factor) that is being multiplied by itself

3

EXPONENT

A small superscript number written above and to the right of the base. It indicates how many times the base is multiplied by itself.

Fun Fact

Super = Latin adverb "above."
Scribere = Latin verb "to write".

WORD FORM

three (base) to the power of four (exponent)
three (base) to the fourth power (exponent)

$$4^2 = 4 \times 4$$

$$4^3 = 4 \times 4 \times 4$$

$$4^4 = 4 \times 4 \times 4 \times 4$$

$$4^5 = 4 \times 4 \times 4 \times 4 \times 4$$

$$4^6 = 4 \times 4 \times 4 \times 4 \times 4 \times 4$$

$$4^7 = 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$$

DETAILED ANSWER KEY

Exponential Form

$$2^5 = 2 \times 2 \times 2 \times 2 \times 2$$

$$4 \times 2$$

$$\text{Word Form: } 8 \times 2$$

two to the power of five

-or- two to the fifth power

$$16 \times 2$$

$$32$$

Standard Form

$$5^4 = 5 \times 5 \times 5 \times 5$$

$$25 \times 5$$

$$125 \times 5$$

$$625$$

EXPONENTS

X^n

$$3^5 = 3 \times 3 \times 3 \times 3 \times 3$$

$$9 \times 3$$

$$27 \times 3$$

$$81 \times 3$$

$$243$$

MATH SKETCH NOTES

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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!

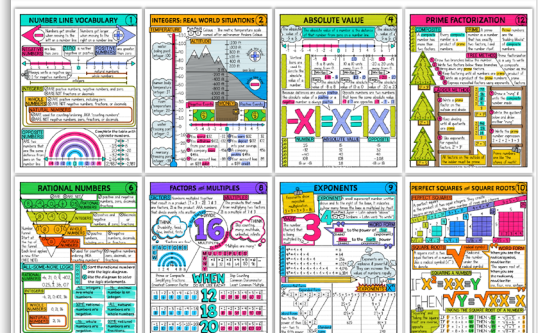
1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

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