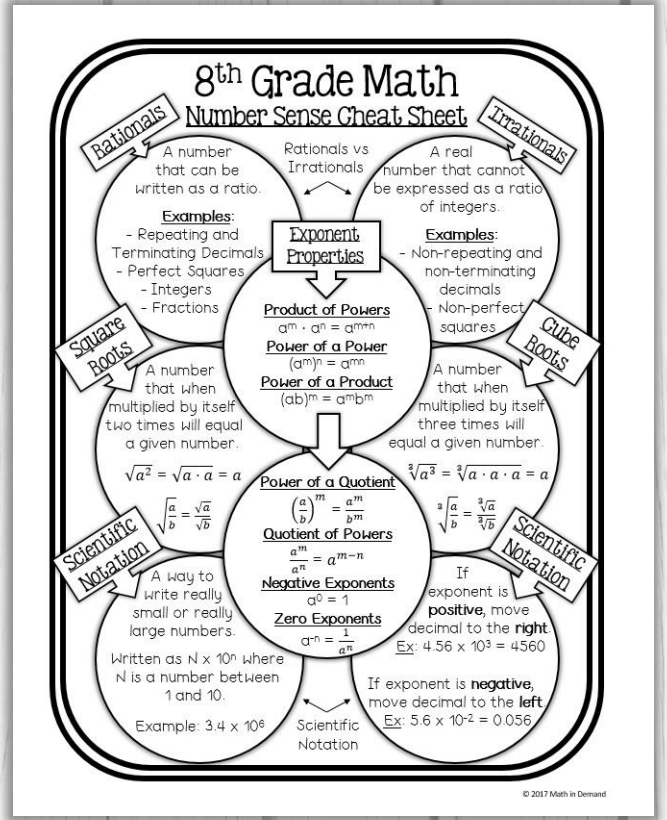
Cheat Sheet

8th Grade Math



Number Sense

Created By: Math in Demand

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Thank you!!!

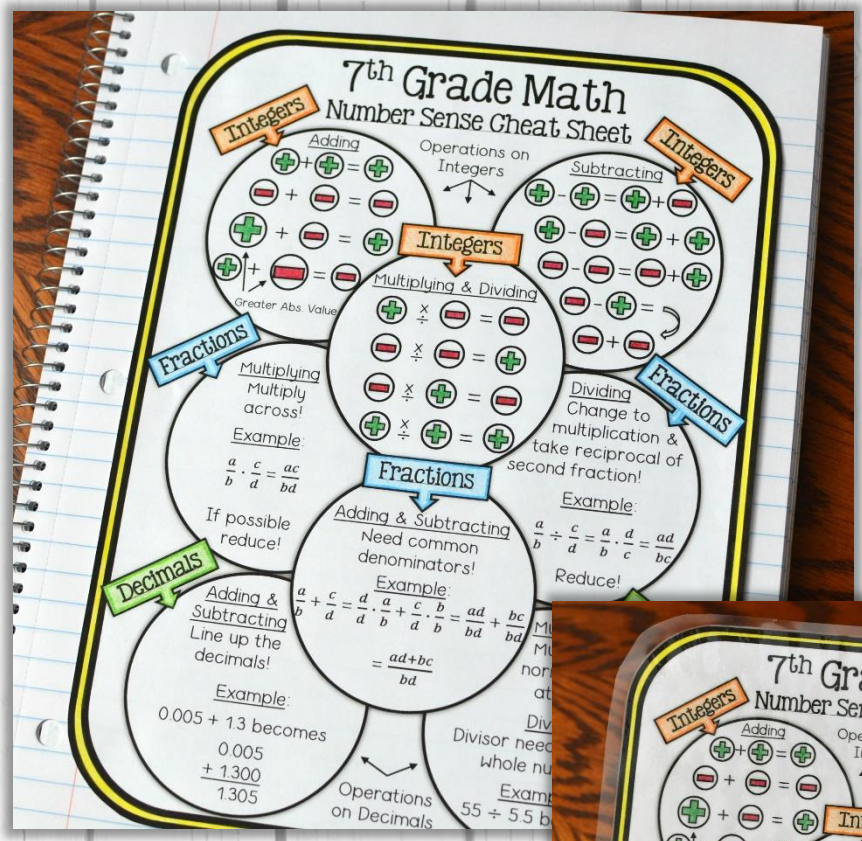
Teacher Notes

- If you want to make a class set, I would recommend laminating the cheat sheet so that you can use it year after year.
- You could also decide to print a cheat sheet for each student and have them glue it into their interactive notebooks.
- If you give one to each student, you could have them color the cheat sheet (If time is limited, I would skip or have students color at home).

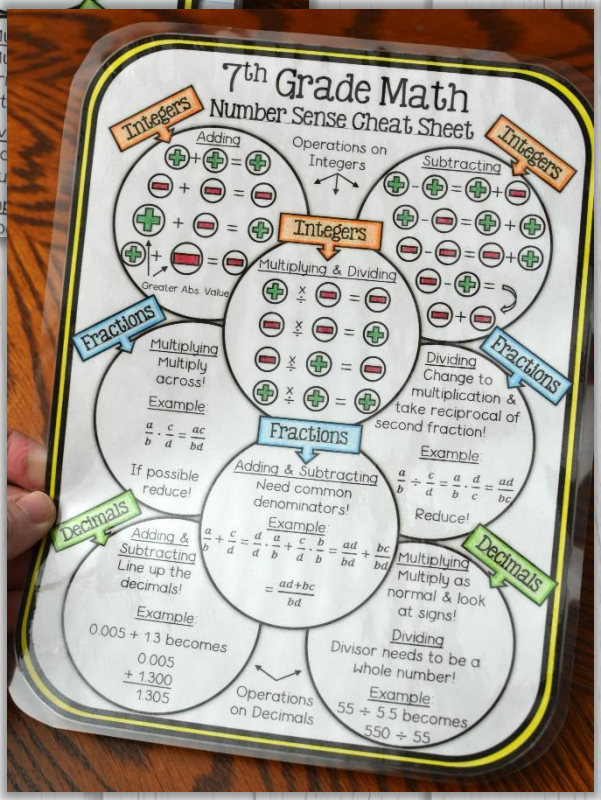
Please let me know if you have any questions about the cheat sheet! You can email me at mathindemand@hotmail.com.

Math in Demand

A Few Options



Works great as a cheat sheet!



Glue in notebooks or laminate!

8th Grade Math
Number Sense Cheat Sheet

Rationals

A number that can be written as a ratio.

Examples:
- Repeating and Terminating Decimals
- Perfect Squares
- Integers
- Fractions

Irrationals

A real number that cannot be expressed as a ratio of integers.

Examples:
- Non-repeating and non-terminating decimals
- Non-perfect squares

Rationals vs Irrationals

Exponent Properties

Product of Powers

$a^m \cdot a^n = a^{m+n}$

Power of a Power

$(a^m)^n = a^{mn}$

Power of a Product

$(ab)^m = a^m b^m$

Power of a Quotient

$\left(\frac{a}{b}\right)^m = \frac{a^m}{b^m}$

Quotient of Powers

$\frac{a^m}{a^n} = a^{m-n}$

Zero Exponents

$a^0 = 1$

Negative Exponents

$a^{-n} = \frac{1}{a^n}$

Square Roots

A number that when multiplied by itself two times will equal a given number.

$\sqrt{a^2} = \sqrt{a \cdot a} = a$

$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$

Cube Roots

A number that when multiplied by itself three times will equal a given number.

$\sqrt[3]{a^3} = \sqrt[3]{a \cdot a \cdot a} = a$

$\sqrt[3]{\frac{a}{b}} = \frac{\sqrt[3]{a}}{\sqrt[3]{b}}$

Scientific Notation

A way to write really small or really large numbers.

Written as $N \times 10^n$ where N is a number between 1 and 10.

Example: 3.4×10^6

Scientific Notation

If exponent is positive, move decimal to the right.

Ex: $4.56 \times 10^3 = 4560$

If exponent is negative, move decimal to the left.

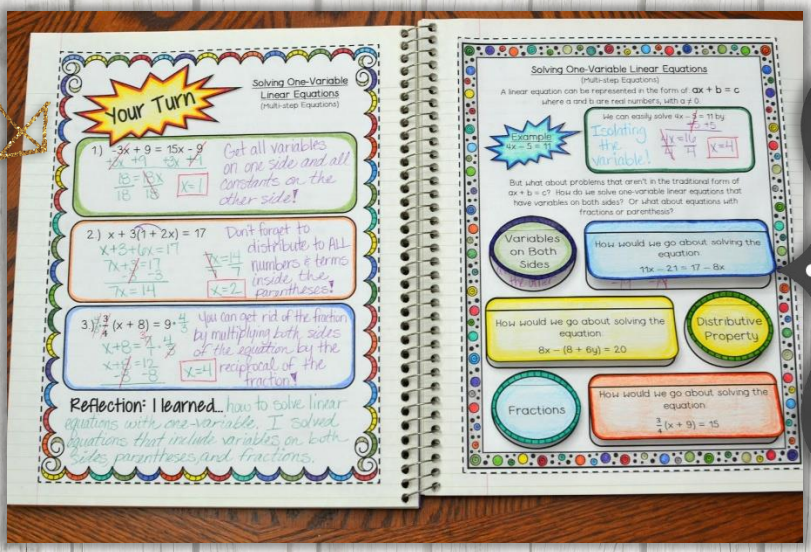
Ex: $5.6 \times 10^{-2} = 0.056$

Scientific Notation

If you like this cheat sheet then please check out my other resources!

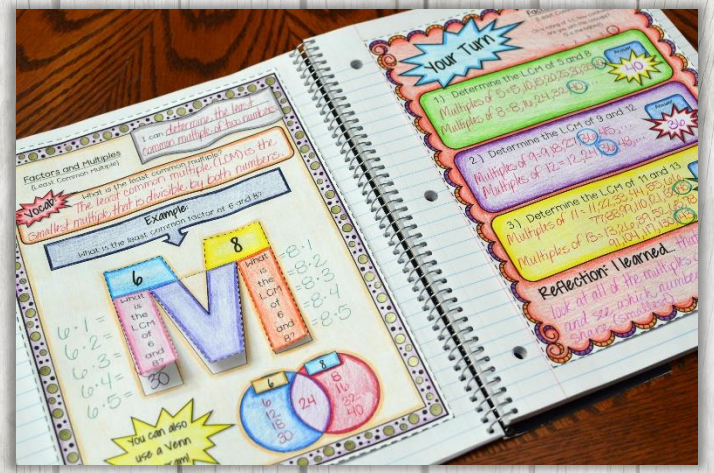
(Click on the pictures)

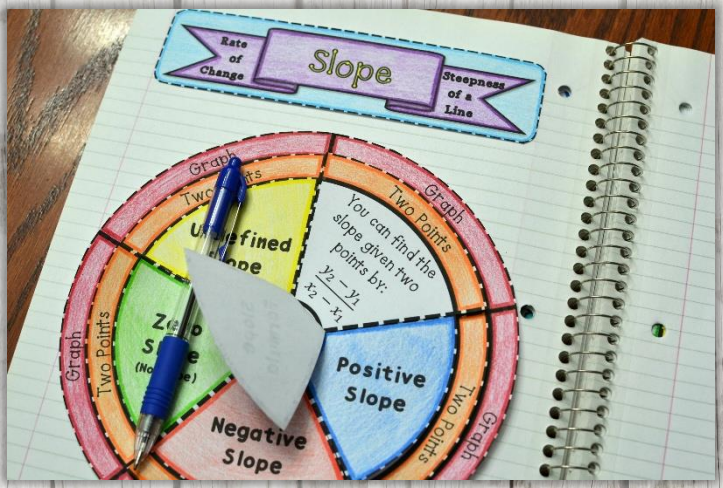
You'll love them!!!



Algebra Interactive Notebook

Pre-Algebra Interactive Notebook





Slope Wheel Foldable

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