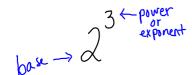
1.1 Exponents, Order of Operations, GCF, LCM, Mixed and Improper Fraction & Ligensite 25.7210 hs. notebo

7th Grade

1.1 Exponents, Order of Operations, GCF, LCM, Mixed \longleftrightarrow Improper Fractions Review

Repeated addition shortcut = multiplication 2+2+2 = 2×3

Repeated multiplication shortcut = exponents $2x2x2 = 2^3$



Special Names:

 x^2 : x to the 2nd power = x squared x^3 : x to the 3rd power = x cubed

Write as a product

Order of Operations PE(MD)(AS) - Please Excuse My Dear Aunt Sally

Parentheses or { }, [] (work from inside out)
Exponents

Multiplication & Division (from left to right)
Addition & Subtraction (from left to right)

Fraction Bar - do top and bottom separately, then divide

$$(2x) \frac{8+2(4-1)}{3^2-2} \frac{14}{7} = 2$$

1.1 Exponents, Order of Operations, GCF, LCM, Mixed and Improper Fraction & General Description of Operations, GCF, LCM, Mixed and Improper Fraction & General Description of Operations, GCF, LCM, Mixed and Improper Fraction & GCF, Mixed & GCF, M

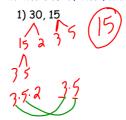
You Try:

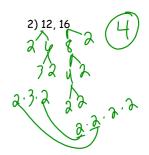
1) $5^{2} - 4 \cdot 6 \div 3$ [7] $25 - 24 \div 3$ [7] $25 - 24 \div 3$ [7] $25 - 24 \div 3$ [8] $25 - 24 \div 3$ [9] $25 - 24 \div 3$ [10] $25 - 24 \div 3$ [11] $25 - 24 \div 3$ [12] $25 - 24 \div 3$ [12] $25 - 24 \div 3$ [13] $25 - 24 \div 3$ [14] $25 - 24 \div 3$ [15] $25 - 24 \div 3$ [17] $25 - 24 \div 3$ [18] $25 - 24 \div 3$ [18] $25 - 24 \div 3$ [19] $25 - 24 \div 3$ [10] $25 - 24 \div 3$ [10] 25 - 24

GCF - Greatest Common Factor:

- equal to or smaller than the given #'s
- use prime factorization, product of all common factors.

Find the GCF of the following:





LCM - Least Common Multiple:

- equal to or greater than the given #'s
- list multiples of each number, 1st common factor found

Find the LCM of the following:





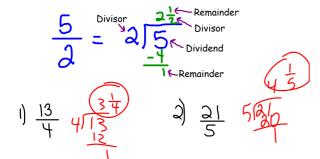
You Try:

Find the GCF of 8 and 14 Find the LCM of 5 ar



1.1 Exponents, Order of Operations, GCF, LCM, Mixed and Improper Fraction & General Description 1.1 Exponents, Order of Operations, GCF, LCM, Mixed and Improper Fraction 1.1 Exponents, Order of Operations, GCF, LCM, Mixed and Improper Fraction 1.1 Exponents, Order of Operations, GCF, LCM, Mixed and Improper Fraction 1.1 Exponents, Order of Operations, GCF, LCM, Mixed and Improper Fraction 1.1 Exponents, Order of Operations, GCF, LCM, Mixed and Improper Fraction 1.1 Exponents, Order of Operation 1.1 Exponents, Operation 1.1 Exponents

Mixed and Improper Fractions
Change from improper to mixed number - Use Long Division



Change from mixed number to improper fraction
- Multiply Divisor and Dividend then add Remainder



Try this:

Change to improper fraction

Change to mixed number

Homework

Worksheet