# Algebra I DUMMIES

#### BULES OF DIVISIBILITY

Does it divide eventy or not? These are march Sint

- ... Divinibility by 2: Number ends in 0, 2, 4,
  - Examples: 29 64 1,138 300,006
- Divisibility by 4: Last two digits form a A get elektronic response
  - Examples: 234,516 113,552,008
- Divinibility by it: Last three digits fonts a recombined disciplished by III.
  - Examples: 431,329 (320 + 8 = 40)  $0.8853 \pm 0.6 \pm 0.08 \pm 0.01$
- Divinibility by S: Number ands in 0, 5 Examples 330,145 431,330
- Divinibility by 10: Number ends in 0 Enamples: 111.220.300 44,000,000
- Divinibility by 3: Sum of digits in a multiple of 3 Fearquie: 48.235.112 (4 + 6 + 2 + 3 + 5
  - +1+1+2-24) Divinibitity by 9: Sure of digits in a
- multiple of 9 Example: 23,000,004 (2 + 3 + 0 + 6 + 9) +0+0+4=100

- ... Divinibility by 15: Difference between the sums of the alternating digits is divisible by 11 (result is 0, 11, 22, ....) Example: \$45,587 (1 + 5 + 8
  - T = 140, 14 = 14 = 00
- Divinibility by & Divinible by both 2 and 3. Example: 23.514 (Ends in 4) sum of dispita in 75.3
- Divinibility by 12: Divinible by both 3 and 4 Example: 113,639 (Sum of digits is 21; last two digits form "28."):

#### Rules of divisibility for multiples

The numbers in the product can't have common factors:

- Divinibility by & Use rules for 2 and 3
- Divingibility by 12: Use rules for 3 and 4 Scient's week 2 and 40
- Oversiteitity by 15: Use rules for 3 and 5.
- Divinibility by 18: Use rules for 2 and 9 Scient's week 3 and 60
- Divisibility by 24: Use rules for 3 and 8. Scient's own 4 and 63

And up on

#### NUMBER SYSTEMS

What's in a number? Its name, of course. Give your answers in the form requested!

Number System	Description	Some Enamples
Netural numbers	Counting numbers; positive and nonfractional	1, 2, 3, 4, 5,
Whole numbers	All natural members plus 0	0.1.2.2.4.5
Integers	Positive and negative whole numbers and 0	1, 2, 3,
Rational numbers	Any number that can be written as a fraction $\frac{g}{g}$ , where $g$ and $g$ are integers, but $g$ is rever $0$	1-11
rrational numbers	Cannot be written as a fraction; decimal equivalents never repeat or terminate	£ 45 ×
Real numbers	All rationals and imationals; numbers that can be positioned commwhere on the real number line	49 -es o
Complex numbers	Numbers of the form $a+bi$ where $a$ and $b$ are real numbers and $i=\sqrt{-1}$	3 + 4/ -2 + /
Perfect numbers	Numbers for which the product of their fac- tors and the sum of their factors are the same	Factors of 6: 1, 2, 2, 5 - 1 + 2 + 3
Triangular numbers	Numbers starting with 1 and found by edding the next number to the previous sum	1, 3, 6, 10, 15, 21, 25, (add 2, add 3, add 4, and so on)
Fibonacci numbers	Numbers beginning with 1, 1, and the next number is found by adding the previous two together	1, 1, 2, 3, 5, 8, 13, 27, 34, 56, 69.

# FACTORS AND MULTIPLES

A factor is one of the multipliers, and a multiple is the result of using factors.

Factors and Multiples	Many They're Related	Storme Engageting
GCF: Sevatest Common Factor	Largest number (factor) that divides the given numbers eventy	GCF18, 12) = 4 GCF180, 90, 1201 = 20 GCF(12, 25) = 1
LCM Least Common Multiple	Smallest number (multiple) that the given numbers all divide into evenly	LCM68, 125 - 24 LCM680, 90, 1269 - 360 LCM612, 251 - 300



A rule for divisibility by 7, 11, or 13 is that you divide the number in question by 1,001 and then look at the remainder. If the remainder is divisible by 7, 11, or 12, then the original number is divisible by that factor

# ORDER OF OPERATIONS

The cornect order for performing operations is necessary to get the correct enswer. When two operations in the same "level" occur in an expression, perform the operations in order, moving from left to right.

Uning the order of operations to simplify 3 2 -2 -2 - 2

#### Step 1: Perform all powers and roots.

Raise 2 to the fourth power and find the square mount out 20%.

-2-10-2-5-4

#### Step 2: Perform all multiplications and divisions.

Michigaly the 3 and 16 and then the 2 and 5.

=48-10+4

Remember that multiplication can be indicated by a dot, i, a times sign, ic, an asterisk, ", or by parentheses, ( ):

#### Step 3: Perform all additions and subtractions.

Subtract 10 from 48 and then add 4.

series by rate mobile or private

column the exponent is 1.

Grouping symbols can "interfere" with the order of operations. Perform any

Milliano, Marine Inches exponent showing.



operations inside the grouping symbols first, before applying the order of operations.

Using the order of operations to simplify 3(4-5)+2-10-1+3+11

#### Tackle the grouping symbols (parentheses, brackets, radicals, fraction lines).

Subtract 5 from 4, then subtract 1 from 10, then add 2 and 11, then subtract 2 from 9.

-3(-1)-2.5-14

Now to the order of operations.

#### Step 1: Perform all powers and roots.

Find the square root of 8.

-3(-1)+2-3+學

#### Step 2: Perform all multiplications and divisions.

Multiply the 3 and -1, then the 2 and 3, then divide 14 by 7.

#### Step 3: Perform all additions and subtractions.

Add the -3 and 5, then add the 2. -3-2-5

#### To solve exponential equations when the bases are nowers of the same number, rewrite as: $B' \sim B'$ and solve $c \sim d$

Given 4" \* 8" \* write each base as a power of 2 (2") \*\* -(2") becomes 2 for 1 - 2 for 17. Now solve 2x + 2 - 3x - 12 giving x - 14.

# RULES FOR USING EXPONENTS

An exponent is a shorthand notation telling you how many times to spoly the base number. Exponents are written as superscripts and can be positive, regative, whole numbers, or fractions. Each has its OWN THRESTON

Rules	Some Examples
Multiplying factors with the same base: Add the exponents. $x^{*}.x^{*} = x^{*-1}$	x" - x" = x" 4" - 4" = 4" = 256
Dividing factors with the same base: Subtract the exponents, $\frac{\pi^*}{\pi^*}=\pi^{*-*} \text{ as long as } x=0.$	$\frac{x^{*}}{x^{*}} = x^{*}$ $\frac{2^{*}}{2^{*}} = 2^{*} = \frac{1}{2^{*}} = \frac{1}{4}$
Raising a power to a power: Multiply the exponents. $(x^{-})^{*} = x^{-*}$	(3,), -3, (x,), -x,

Taking the root of a power (fractional 
$$\frac{\sqrt{x^2}-x^{3/2}}{4x^2-x^{3/2}}$$
 exponents: Divide the exponents,  $y^{3/2}=\sqrt{y^2}=\sqrt{29}=27$  or  $\sqrt{y^2}=(\sqrt{9})=(3)^2=27$ 

Zero exponent 
$$a^{s}=1$$
 as long as  $a=0$ .  $0^{s}=1$   $(-4)^{s}=1$ 

Negative exposess Diange to positive exponent by "changing the position" of the factor in a traction. 
$$x'' = \frac{1}{3}, \quad \frac{1}{3} = \frac{3^*}{1} = 81$$

Negative fractional exponent: 
$$16^{-1} = \frac{1}{16^{16}} = \frac{1}{4^66^7} = \frac{1}{8}$$
 Apply both roles from above. 
$$x^{-2} = \frac{1}{4^{16}} = \frac{1}{4^66^7} = \frac{1}{8}$$

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**Patrick Vollmar** 

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