

# ACT Math FEET



Strategies and practice to achieve high test scores

# NUMBER & OUANTITY

#### NUMBER SYSTEMS REAL NUMBERS

- Natural (counting) numbers: B. 2. 3. 4. .
- Whole numbers: 0, 1, 2, 3, 4, .... Integers: .... -3, -2, -1, 0, 1, 2, 3, ....
- RATIONAL NUMBERS
- \*Can be expressed in the form []. where a and h are inteners
- (CX) 化洗洗果
- Can also be expressed as decimals. that terminate or repeat a pattern.
- EX: 2.56, -9.007, 2.333, ..., 3.35 IRRATIONAL NUMBERS
- Cannot be expressed in the form § EX: 2.789524, ..., m. vill

#### IMAGINARY & COMPLEX MUMBERS

Not part of the real number system.

#### IMAGINARY NUMBERS

- Notice the recurring pattern of I every four terms:
  - $p^{0} = I, p^{2} = -1, p^{3} = -a, p^{4} = 1,$  $p^{4} = p, p^{4} = -1, p^{2} = -p, p^{4} = 1$ EX: What is the value of star-38 + 4 = 9 remainsfor (c) 2.
  - 9 r 2 mount nine potterns of / have been completed and we are two places into the tenth. Thus,  $r^{10} - r^2 - -1$

#### COMPLEX NUMBERS

- . Contain a real and an imaginary component.
- Expressed in the form a + bi-BDC: 2r : 5 = 3r : -4 = r

- \* Addition: add like terms.
- EX: (5 + 20 + (3 50 8 3)
- Multiplications use the distributive.
- IEX: Multiply (4 3r)(2 5v)
  - Use FOIL (First Outer Inner LaterO to mealthindy.
  - Fig. 4  $\times$  2  $\rightarrow$  8.
  - Oc. 4 × -5/ × -26/
  - $11 34 \times 2 = -64$

  - $1.5 30 = -50 = 150^2 = -15$ Combine like terrors:
  - 8 200 6x 15 -7 26x

#### **NUMERICAL PLACE VALUE**

#### RDC: 7346-25058

- 7 is in the hundreds place
- It is in the term place.
- 6 is in the enes (units) place
- 2 is in the tenths place
- 9 is in the hundredths place
- 5 is in the thousandths place
- 8 is in the ten-thousandths place.

#### **DIVISIBILITY RULES**

#### If number divisible but

2	last digit even
3.	sum of digits divisible by 3
3	last digit 5 or 0
2.	sum of digits divisible by 9
10	fact digit 0

- EX: Is 7,000 disvisable by 37.
  - 7+0+0-2-9 9 in divisible by 3, so 7,002 is
- disconnibile line 3. EX: Is 23,472 divisible by 97
  - 2 + 3 + 4 + 7 + 2 18
  - 18 is divisible by 9, so 23,472 is discount that he will

#### ABSOLUTE VALUE

- \*Distance of a number from 0 on a manufact time; exceled in [1]
- EXe[4] = 4 and [-4] = 4
  - 4 and -4 are both four units away from 0 on a number line.



#### ORDERING FRACTIONS ON A NUMBERLINE

- · Convert each fraction to a decimal EX: Place the following fractions in
  - order on a number line: \$, \$, \$, \$. 音一 0.78、音一 0.625、音 一 0.36。

#### MATRICES

- A matrix is a rectangular arrangement of rows and columns enclosed in because hearts.
- EX: What type of matrix is shown Bedless 2
  - 2 7 9 4 8 3
  - There are two rows and three columns, so it's a 2 × 3 matrix.

#### **MULTIPLYING BY A CONSTANT**

EX: Multiply  $\begin{bmatrix} 4 & -2 \\ 8 & 3 \end{bmatrix}$  by 6.

#### MULTIPLYING BY ANOTHER MATRIX

You will only need to know if two matrices can be modtiplied.

EX<sub>1.4</sub> = 
$$\begin{bmatrix} 2 & 6 & 3 \\ 5 & 4 & 1 \end{bmatrix}$$
  $B = \begin{bmatrix} 4 & 9 \\ 6 & -2 \\ 3 & -11 \end{bmatrix}$ 

- Is it possible to realisply matrix if by matrix if (i.e., ARC
- A: two rows, three columns (2 × 3).
  - B; there sows, two columns  $(3 \times 2)$
- If the columns of the first matrix could the rows of the second matrix, the matrices can be multiplied.
- $2 \times 3 = 3 \times 2 \rightarrow 2 \times 2$  matrix. NOTE: B4 is also possible:
- 3 × 2 2 × 3 3 × 3 matrix

#### PROPERTIES OF EXPONENTS

- An exponent, also known as a power, is a small, raised number that indicates how often a number is multiplied by itself.
- EX: 9" 9 × 9 × 9 × 9 6,561
- When multiplying, add exponents:  $(x^3)(x^3) x^{2-3} x^5$ •When raising an exponent to a power, multiply exponents:  $(x^3)^2 = x^{3+2} = x^6$
- When dividing, subtract exponents:

$$EX_2^{-1} = x^{2-4} - x^4$$

BENEFIT AND ASSESSED.

# SCIENTIFIC NOTATION

- A number expressed in the form m × 10°, where 1 ≤ m ≤ 10. and a is an intener
- EX: Express 11,203 in scientific notation.  $11.200 - 1.1200 \times 10^4$
- \*Decimals less than I can also be expressed in scientific motation.
- EX: Express 0.00312 in scientific notation.
  - Move the decimal three places to the right to arrive at
  - Since the decimal point moved to the right, the exponent becomes negative.
  - $0.000312 3.12 10^{-5}$

### ALGEBRAIC DEFINITIONS WARRABLE

- Symbol that represents some value.
- \*xx, m, h, and y are office used.

#### COEFFICIENT

- \*Real number value that precedes a 'exercischelor'
- EXclin the term 9m, 9 is the coefficient and as is the was included.
- ·When no value precedes a variable, it's understood to be 1

#### TERM

- · Walton that expresses a coefficient and one or more variables raised to exponents.
- EN: 3m. -5mm, -7, 4x2y3

#### EXPRESSION

- \*Collection of terms set apart by private our malescent statement
- $12X_1 3\sin x^2 5$ , 4x + 3y,  $\frac{3x^2}{2} 3y$

#### LINCE TERMS

- "Terms that have the same variables and exponents
- and can be simplified. EX: 2000 - 1100 - - 2000 45m = 135m = 5m = 185m

#### **EQUATION**

- \*Equivalence of two terms or expressions.
- $EX_1 3x = 21$  5x + 6 = 4x 5
- SOLVING EQUATIONS · boolanc a variable
- . Use inverse operations and perform the same action on both sides of an equation
- EX: Sobie to find a:
  - 6m + 8 56Ger + B - B - 56 - B 640 - 450

  - 항 방 are N

# ALGEBRA & FUNCTIONS WITH MORE THAN ONE VARIABLE

- ENa Solve for v.
  - Sec. 41 Apr 44 2546 6x - 6x + 4y = -6x + 24
  - 4y = -6x + 24
  - 4--2x-6

# INFOUALITIES

- · Show one quantity is larger than another
- EXam > 7 3m < 12 Sometimes one quantity is greater than
- or equal to another value.  $EX_{2} = \ge 4 - 4\pi \le -16$
- The following phrases are used with "sproeter Mass"
- \*Less than / more than
- \*Less than / greater than · Use to / discount to-

· No more two less's those

- The following phrases are used with "greater than or equal to": \*Greater (less) than or equal to
- Up-(down) to and including.

#### DIVIDING & MULTIPLYING BY A NEGATIVE NUMBER

· Reverse the direction. of the inequality sign. H.N.: Stollere for m.

#### 40 10 10 10 GRAPHING ON A NUMBER LINE

When graphing m > 6, motic that the point at 6is an open dot. When graphing  $r \le 2$ , note that the point at 2 is darkened. Whenever the point is open, the point is not part of the solution. Filled-indiote, are most of the well-attions.



## **ABSOLUTE VALUE**

- Solve and graph absolute value incomalities.
- EX: Solve and graph  $|m-2| \ge 6$  $m-2 \ge 6 - (m-2) \ge 6$ AP 21 8 -m+2 > 6
  - $-\infty \ge 4$ 100 T - 4 3m - 21 2: 6 4-3-2-1 9 1 2 3 4 5 6
- EX: Solve and graph  $|x| + 10 \le 6$ . x = 1 < 6 -0x = 10 < 6 x < 5 $-3 - 1 \le 6$ 
  - This ansener will take the form of a compound inequality.
  - -7 -C to -5 -5

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**Albert A Gayle** 

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# **Table of Contents Act Mathematics Test Prep Guide Answers**

- 1. Understanding the eBook Act Mathematics Test Prep Guide Answers
  - The Rise of Digital Reading Act Mathematics Test Prep Guide Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Act Mathematics Test Prep Guide Answers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Act Mathematics Test Prep Guide Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Act Mathematics Test Prep Guide Answers
  - Personalized Recommendations
  - Act Mathematics Test Prep Guide Answers User Reviews and Ratings
  - Act Mathematics Test Prep Guide Answers and Bestseller Lists
- 5. Accessing Act Mathematics Test Prep Guide Answers Free and Paid eBooks
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  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Act Mathematics Test Prep Guide Answers
- 9. Balancing eBooks and Physical Books Act Mathematics Test Prep Guide Answers
  - Benefits of a Digital Library
  - $\circ$  Creating a Diverse Reading Collection Act Mathematics Test Prep Guide Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Act Mathematics Test Prep Guide Answers
  - Setting Reading Goals Act Mathematics Test Prep Guide Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Act Mathematics Test Prep Guide Answers
  - Fact-Checking eBook Content of Act Mathematics Test Prep Guide Answers
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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