



# ACT Math

TEST  
PREP



Strategies and practice to achieve high test scores

## NUMBER & QUANTITY

### NUMBER SYSTEMS

#### REAL NUMBERS

- Natural (counting) numbers:  
1, 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  $\frac{a}{b}$ , where  $a$  and  $b$  are integers

EX:  $\frac{1}{2}$ ,  $1\frac{1}{2}$ ,  $-\frac{3}{4}$ ,  $-\frac{5}{6}$

- Can also be expressed as decimals that terminate or repeat a pattern

EX: 7.56, -9.0007, 7.333, ..., 5.56

#### IRRATIONAL NUMBERS

- Cannot be expressed in the form  $\frac{a}{b}$

EX: 2.789524, ...,  $\pi$ ,  $\sqrt{11}$

#### IMAGINARY & COMPLEX NUMBERS

- Not part of the real number system

#### IMAGINARY NUMBERS

- $i = \sqrt{-1}$

Notice the recurring pattern of  $i$  every four terms:

$$i^1 = i, i^2 = -1, i^3 = -i, i^4 = 1, i^5 = i, i^6 = -1, i^7 = -i, i^8 = 1$$

EX: What is the value of  $i^{20}$ ?  
 $18 \div 4 = 9$  remainder 2  
 $9 \times 2$  means nine patterns of  $i$  have been completed and we are two places into the tenth.

Thus,  $i^{20} = i^2 = -1$

#### COMPLEX NUMBERS

- Contain a real and an imaginary component

EX:  $2i$ ,  $5 + 3i$ ,  $-4 - i$

- Addition: add like terms

EX:  $(5 + 2i) + (3 - 5i) = 8 - 3i$

- Multiplication: use the distributive property

EX: Multiply  $(4 - 3i)(2 - 5i)$   
Use FOIL (First Outer Inner Last) to multiply.

$$F: 4 \times 2 = 8$$

$$O: 4 \times -5i = -20i$$

$$I: -3i \times 2 = -6i$$

$$L: -3i \times -5i = 15i^2 = -15$$

$$\text{Combine like terms:}$$

$$8 - 20i - 6i - 15 = -7 - 26i$$

#### NUMERICAL PLACE VALUE

EX: 736,2958

7 is in the hundreds place  
3 is in the tens place  
6 is in the ones (unit) 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 by:

|    |                              |
|----|------------------------------|
| 2  | last digit even              |
| 3  | sum of digits divisible by 3 |
| 5  | last digit 5 or 0            |
| 9  | sum of digits divisible by 9 |
| 10 | last digit 0                 |

EX: Is 7,002 divisible by 3?  
 $7 + 0 + 0 + 2 = 9$   
9 is divisible by 3, so 7,002 is divisible by 3.

EX: Is 23,472 divisible by 9?  
 $2 + 3 + 4 + 7 + 2 = 18$   
18 is divisible by 9, so 23,472 is divisible by 9.

### ABSOLUTE VALUE

- Distance of a number from 0 on a number line; symbol is  $| |$

EX:  $|4| = 4$  and  $|-4| = 4$   
4 and -4 are both four units away from 0 on a number line.



### ORDERING FRACTIONS ON A NUMBER LINE

- Convert each fraction to a decimal

EX: Place the following fractions in order on a number line:  $\frac{2}{5}$ ,  $\frac{3}{8}$ ,  $\frac{4}{11}$ ,  $\frac{5}{9}$

$$\frac{2}{5} = 0.78, \frac{3}{8} = 0.625, \frac{4}{11} = 0.36, \frac{5}{9} = 0.43$$



### MATRICES

A matrix is a rectangular arrangement of rows and columns enclosed in brackets.

EX: What type of matrix is shown below?

$$\begin{bmatrix} 2 & 7 & 9 \\ 4 & 8 & 3 \end{bmatrix}$$

There are two rows and three columns, so it's a  $2 \times 3$  matrix.

### MULTIPLYING BY A CONSTANT

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

$$6 \begin{bmatrix} 4 & -2 \\ 8 & 3 \end{bmatrix} = \begin{bmatrix} 6 \times 4 & 6 \times (-2) \\ 6 \times 8 & 6 \times 3 \end{bmatrix} = \begin{bmatrix} 24 & -12 \\ 48 & 18 \end{bmatrix}$$

### MULTIPLYING BY ANOTHER MATRIX

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

$$EX: A = \begin{bmatrix} 2 & 6 & 3 \\ 5 & 4 & 1 \end{bmatrix} \quad B = \begin{bmatrix} 4 & 9 \\ 6 & -2 \\ 5 & -11 \end{bmatrix}$$

Is it possible to multiply matrix  $A$  by matrix  $B$  (i.e.,  $AB$ )?  
 $A$ : two rows, three columns ( $2 \times 3$ )  
 $B$ : three rows, two columns ( $3 \times 2$ )

If the columns of the first matrix equal the rows of the second matrix, the matrices can be multiplied.

$$2 \times 3 \quad 3 \times 2 \rightarrow 2 \times 2 \text{ matrix}$$

NOTE:  $B \cdot A$  is also possible:

$$3 \times 2 \quad 2 \times 3 \rightarrow 3 \times 3 \text{ matrix}$$

### 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:  $9^2 = 9 \times 9 = 81$

When multiplying, add exponents:  $(x^3)(x^2) = x^{3+2} = x^5$

When raising an exponent to a power, multiply exponents:  $(x^3)^2 = x^{3 \times 2} = x^6$

When dividing, subtract exponents:

$$EX: \frac{x^5}{x^2} = x^{5-2} = x^3$$

$$EX: \frac{x^5}{x^6} = x^{5-6} = x^{-1} = \frac{1}{x}$$

### SCIENTIFIC NOTATION

A number expressed in the form  $a \times 10^n$ , where  $1 \leq a < 10$  and  $n$  is an integer

EX: Express 11,203 in scientific notation.

$$11,203 = 1.1203 \times 10^4$$

Decimals less than 1 can also be expressed in scientific notation.

EX: Express 0.00012 in scientific notation.

$$0.00012 = 1.2 \times 10^{-4}$$

### ALGEBRAIC DEFINITIONS

#### VARIABLE

- Symbol that represents some value

$a$ ,  $n$ ,  $h$ , and  $y$  are often used

#### COEFFICIENT

- Real number value that precedes a variable

EX: In the term  $9m$ , 9 is the coefficient and  $m$  is the variable.

- When no value precedes a variable, it's understood to be 1

#### TERM

- Value that expresses a coefficient and one or more variables raised to exponents

EX:  $3m$ ,  $-3mn$ ,  $\frac{m^2}{2}$ ,  $4x^2y^3$

#### EXPRESSION

- Collection of terms set apart by plus or minus signs

EX:  $-3mn^2 - 5, 4x + 2y, \frac{2m}{3}, 3y$

### LIKE TERMS

- Terms that have the same variables and exponents and can be simplified

EX:  $9mn^2 - 11mn^2 = -2mn^2$

$$4hm + 11hm + 8m = 15hm$$

### EQUATION

- Equivalence of two terms or expressions

EX:  $3x = 21$   $5x + 6 = 4x - 5$

### SOLVING EQUATIONS

- Isolate a variable

- Use inverse operations and perform the same action on both sides of an equation

EX: Solve to find  $x$ .

$$6x + 8 = 26$$

$$6x + 8 - 8 = 26 - 8$$

$$6x = 18$$

$$\frac{6x}{6} = \frac{18}{6}$$

$$x = 3$$

### WITH MORE THAN ONE VARIABLE

EX: Solve for  $y$ .

$$6x - 4y = 24$$

$$6x - 6x + 4y = -6x + 24$$

$$4y = -6x + 24$$

$$\frac{4y}{4} = \frac{-6x + 24}{4}$$

$$y = -\frac{3}{2}x + 6$$

### INEQUALITIES

- Show one quantity is larger than another

EX:  $x > 7$   $3x < 12$   
Sometimes one quantity is greater than or equal to another value.

EX:  $m \geq 4$   $4n \leq -16$

- The following phrases are used with "greater than":

- Less than / more than
- Less than / greater than
- Up to / down to

- The following phrases are used with "greater than or equal to":

- Greater (less) than or equal to
- No more (no less) than
- Up (down) to and including

### DIVIDING & MULTIPLYING BY A NEGATIVE NUMBER

- Reverse the direction of the inequality sign

EX: Solve for  $n$ .

$$-7n > 49$$

$$\frac{-7n}{-7} < \frac{49}{-7}$$

$$n < -7$$

### GRAPHING ON A NUMBER LINE

When graphing  $m > 6$ , note that the point at 6 is an open dot. When graphing  $x \leq 2$ , note that the point at 2 is a closed dot. Whenever the point is open, the point is not part of the solution. Filled-in dots are part of the solution.



### ABSOLUTE VALUE

Solve and graph absolute value inequalities.

EX: Solve and graph  $|m - 2| \geq 6$

$$m - 2 \geq 6 \quad -(m - 2) \geq 6$$

$$m \geq 8 \quad -m + 2 \geq 6$$

$$m \leq 4$$

$$m \leq -4$$

$$|m - 2| \geq 6$$

EX: Solve and graph  $|x + 1| < 6$

$$x + 1 < 6 \quad -(x + 1) < 6$$

$$x < 5 \quad -x - 1 < 6$$

$$-x < 7 \quad x > -7$$

This answer will take the form of a compound inequality.

$$-7 < x < 5$$



# Act Mathematics Test Prep Guide Answers

**ACT Prep Book 2018 & 2019 Team**



## **Act Mathematics Test Prep Guide Answers:**

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