

ACT® MATH CRAM SHEET

NUMBER CLASSIFICATION



Each number system is a subset another.

A rational number is also a real number, a real number is also a complex number, etc.

Number Class	Definition	Examples
Natural numbers	The number 1 or any number obtained by adding 1 to it one or more times.	1, 2, 3, 4, 5, ...
Whole Numbers	Whole numbers do not include fractions or decimal parts and is a positive integer or zero.	0, 1, 2, 3, 4, 5, ...
Integers	Any whole number or its opposite.	..., -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, ...
Rational numbers	A number can that be expressed as a ratio or fraction.	<ul style="list-style-type: none"> • $\frac{2}{10}$ • $\frac{3}{10}$ • 2.957
Real Numbers	A number that has no imaginary part. All real numbers can be located on a number line.	<ul style="list-style-type: none"> • -92 • $\frac{5}{9}$ • $\sqrt{2}$
Complex Numbers	$a + bi$ where a and b are real numbers and i (imaginary number) is a formal square root of -1 ($i^2 = -1$)	<ul style="list-style-type: none"> • $-1 + 2i$ • $7 - 9i$ • $-6i$

NUMBER LINES



Standard Number Line

Number lines may have a point for zero and may show negative numbers on the left side of the line.

Any positive numbers are placed on the right side of the line.



Absolute Value

Absolute value is the distance away from zero a number is on the number line. It is always positive and is written $|x|$.

For example, the absolute value of 2 is written as $|2|$.

MATHEMATICAL SYMBOLS

Phrase	Symbol
equal, is, was, will be, has, costs, gets to, is the same as, becomes	=
times, of, multiplied by, product of, twice, doubles, halves, triples	×
divided by, per, ratio of/to, out of	÷
plus, combined, and, more than, totals of	+
less than, decreased by, minus, difference between	-
what, how much, original value, how many, a number, a variable	$x, n, \text{etc.}$

Lesser Known Symbols

The Golden Ratio: ϕ
 Infinity: ∞
 Euler's Number: e
 Universal Quantifier: \forall
 Membership Sign: \in

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Table of Contents Act Practice This Month Returns

1. Understanding the eBook Act Practice This Month Returns
 - The Rise of Digital Reading Act Practice This Month Returns
 - Advantages of eBooks Over Traditional Books
2. Identifying Act Practice This Month Returns
 - 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 Practice This Month Returns
 - User-Friendly Interface
4. Exploring eBook Recommendations from Act Practice This Month Returns
 - Personalized Recommendations
 - Act Practice This Month Returns User Reviews and Ratings
 - Act Practice This Month Returns and Bestseller Lists

5. Accessing Act Practice This Month Returns Free and Paid eBooks
 - Act Practice This Month Returns Public Domain eBooks
 - Act Practice This Month Returns eBook Subscription Services
 - Act Practice This Month Returns Budget-Friendly Options
6. Navigating Act Practice This Month Returns eBook Formats
 - ePub, PDF, MOBI, and More
 - Act Practice This Month Returns Compatibility with Devices
 - Act Practice This Month Returns Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Act Practice This Month Returns
 - Highlighting and Note-Taking Act Practice This Month Returns
 - Interactive Elements Act Practice This Month Returns
8. Staying Engaged with Act Practice This Month Returns
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Act Practice This Month Returns
9. Balancing eBooks and Physical Books Act Practice This Month Returns
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Act Practice This Month Returns
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Act Practice This Month Returns
 - Setting Reading Goals Act Practice This Month Returns
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Act Practice This Month Returns
 - Fact-Checking eBook Content of Act Practice This Month Returns
 - 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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