

Name _____ Date _____ Class _____

Diagnostic Test

Select the best answer for questions 1–60. Fill in the correct bubble on your answer sheet.

1. Which rule will generate the values of y from the values of x ?

x	1	2	3	4
y	-4	-1	4	11

- A** Subtract 5 from the cube of x .
B Subtract 8 from the square of $x + 1$.
C Add 7 to x .
D Subtract 5 from the square of x .
2. The numbers represented below are called square numbers. What is the next number in the pattern?



- F** 17 **H** 24
G 20 **I** 25
3. The average cat consumes about $1.27 \cdot 10^5$ calories per year. Which shows that number in standard notation?
- A** 1,270
B 12,700
C 127,000
D 1,270,000

4. Use the order of operations to simplify the expression

$$(9 - 2^2) \times (36 \div 9) + 8.$$

- F** 25
G 26
H 27
I 28
5. A technician scoops out 25 gallons of a chemical from a container containing 300 gallons of the chemical. Which equation can be used to find how much of the chemical, p , remains?
- A** $25p = 300$
B $300 + 25 = p$
C $p - 25 = 300$
D $300 - 25 = p$
6. What is the value of $3x^2 + 2$ when $x = -4$?
- F** -142
G -46
H 50
I 146

Mit Math Diagnostic Practice Test

DJ Losen



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Table of Contents Mit Math Diagnostic Practice Test

1. Understanding the eBook Mit Math Diagnostic Practice Test
 - The Rise of Digital Reading Mit Math Diagnostic Practice Test
 - Advantages of eBooks Over Traditional Books
2. Identifying Mit Math Diagnostic Practice Test
 - 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 Mit Math Diagnostic Practice Test
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mit Math Diagnostic Practice Test
 - Personalized Recommendations
 - Mit Math Diagnostic Practice Test User Reviews and Ratings
 - Mit Math Diagnostic Practice Test and Bestseller Lists
5. Accessing Mit Math Diagnostic Practice Test Free and Paid eBooks

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