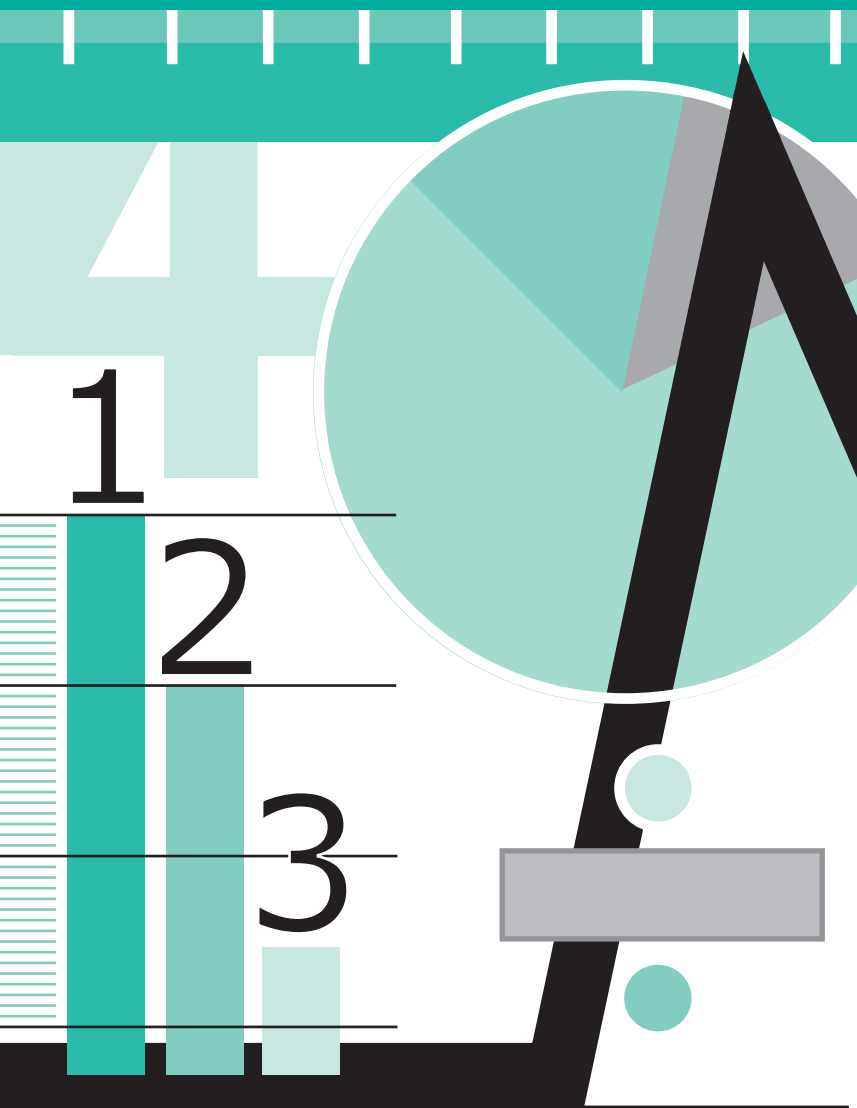


A Quick-Study® Program

Book
8

TEST... READY®

MATHEMATICS



- **REVIEWS**
Key Math Concepts
- **PROVIDES**
Problem-Solving Practice
- **DEVELOPS**
Test-Taking Skills
- **IMPROVES**
Math Assessment Scores

Name: _____

For the Student

TEST READY® Mathematics is a review program that provides practice in important test-taking skills. The program can be completed in thirteen days. Your teacher will provide you with directions about how to do the lessons and how to record the answers. Your teacher will also tell you when to begin work on each lesson part and when to stop.

It is important that you read and follow all directions. When the directions tell you to STOP, go no further. Wait for your teacher to tell you what to do. While you work on the **TEST READY** lessons, you will come across **Testing Tips**. Read these helpful tips carefully. They will make you a better test taker.

When You Use This Book

- Read each problem carefully before you attempt to solve it.
- Note all the facts in the problem.
- Look at each sign to see if you should add, subtract, multiply, or divide.
- Determine the number of steps needed to solve the problem before you begin.
- Estimate the answer to see if you can cross out any of the multiple choices.
- After the first step in adding, subtracting, multiplying, or dividing, check your answer to see if you can cross out any more of the multiple choices.
- Reduce all fractions to lowest terms and change all improper fractions to mixed numbers.

This **TEST READY Mathematics** book was prepared for students by Brian E. Enright and Karen Jones.

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15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

PART 1 Number Facts

Fill in the correct answer as quickly as possible.

- a) $9 \div 3 = \underline{\quad}$
- b) $4 \times 2 = \underline{\quad}$
- c) $42 \div 6 = \underline{\quad}$
- d) $12 \div 2 = \underline{\quad}$
- e) $5 \times 4 = \underline{\quad}$
- f) $56 \div 7 = \underline{\quad}$
- g) $8 \times 5 = \underline{\quad}$
- h) $9 \div 9 = \underline{\quad}$
- i) $2 \times 7 = \underline{\quad}$
- j) $24 \div 6 = \underline{\quad}$
- k) $6 \times 9 = \underline{\quad}$
- l) $3 \times 4 = \underline{\quad}$
- m) $12 \div 3 = \underline{\quad}$
- n) $54 \div 9 = \underline{\quad}$
- o) $5 \times 7 = \underline{\quad}$



STOP

PART 2 Computation

Testing Tip: Answer all the test items you know first. Go back and answer the other items later.

Choose the correct answer for each problem. If the correct answer is *not here*, choose *NH*.

- 1. $\frac{3}{4} \times \frac{1}{2} = \square$
 - (A) $\frac{2}{3}$
 - (B) $1\frac{1}{2}$
 - (C) 1
 - (D) $\frac{3}{8}$
 - (E) NH
- 2. $\frac{4}{11} \div \frac{3}{7} = \square$
 - (A) $\frac{12}{77}$
 - (B) $\frac{18}{7}$
 - (C) $\frac{28}{33}$
 - (D) $6\frac{5}{12}$
 - (E) NH

3. $2\frac{1}{6} \times \frac{5}{7} = \square$

- (A) $1\frac{23}{42}$
- (B) $3\frac{6}{13}$
- (C) $2\frac{5}{42}$
- (D) $1\frac{19}{72}$
- (E) NH

4. $3\frac{4}{5} \div \frac{1}{5} = \square$

- (A) $3\frac{1}{4}$
- (B) $\frac{1}{4}$
- (C) $3\frac{1}{2}$
- (D) 19
- (E) NH

5. $6\frac{1}{3} \times \frac{2}{3} = \square$

- (A) $6\frac{1}{3}$
- (B) $4\frac{2}{9}$
- (C) $6\frac{2}{9}$
- (D) $9\frac{1}{2}$
- (E) NH

6. $1\frac{6}{7} \div 1\frac{6}{7} = \square$

- (A) 1
- (B) $2\frac{6}{7}$
- (C) $3\frac{22}{49}$
- (D) 0
- (E) NH

7. $8 \times \frac{3}{4} = \square$

- (A) $10\frac{2}{3}$
- (B) $\frac{3}{4}$
- (C) 6
- (D) $8\frac{3}{4}$
- (E) NH

8. $5\frac{4}{9} \div 7 = \square$

- (A) $35\frac{4}{9}$
- (B) $\frac{7}{9}$
- (C) 25
- (D) $38\frac{1}{9}$
- (E) NH

9. $15 \overline{)15,045}$

- (A) 13
- (B) 103
- (C) 1,003
- (D) 1,030
- (E) NH

10. $\frac{4}{5} \div 1\frac{1}{2} = \square$

- (A) $1\frac{5}{7}$
- (B) $1\frac{1}{5}$
- (C) $3\frac{5}{21}$
- (D) $\frac{2}{3}$
- (E) NH

11. $6,020 \div 59 = \square$

- (A) 102
- (B) 12 R2
- (C) 10 R22
- (D) 102 R2
- (E) NH

12. $2\frac{1}{2} \times 1\frac{2}{5} \times 1\frac{3}{7} = \square$

- (A) $2\frac{3}{35}$
- (B) 5
- (C) $1\frac{4}{7}$
- (D) $\frac{1}{5}$
- (E) NH

Solve for x . If the correct answer is *not here*, choose *NH*.

13. $\frac{2}{3} = \frac{x}{12}$

- (A) 8
- (B) 6
- (C) 9
- (D) 18
- (E) NH

$x = \square$

14. $\frac{3}{15} = \frac{x}{10}$

- (A) 45
- (B) 20
- (C) 5
- (D) 2
- (E) NH

$x = \square$

15. $\frac{2x}{3} = 4$

- (A) 12
- (B) 6
- (C) 60
- (D) 8
- (E) NH

$x = \square$



STOP

PART 3 Patterns and Algebra

Choose the correct answer.

16. If $y = 3$, what number sentence is true?

- (A) $4y < 10$ (C) $7y > 20$
 (B) $7y < 20$ (D) $7y = 20$

17. If $4x - 2 = 10$, then $x = \square$.

- (A) 6 (B) 2 (C) 3 (D) 5

18. The nature club makes twice as much money selling nature calendars as it does selling nature cards. If the club made \$54 on the sale of calendars, what expression could be used to find how much money was made on the sale of cards?

- (A) $n \div 54 = 2$ (C) $2n = 54$
 (B) $54 - 2n$ (D) $54n - 2n$

19. Two numbers have a difference of 6, a sum of 60, and a product of 891. What are the two numbers?

- (A) 33, 27 (C) 35, 29
 (B) 37, 31 (D) 41, 21

20. Which of these equations is satisfied by the pairs of numbers in the table?

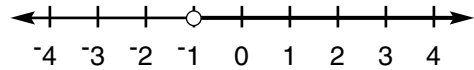
x	4	6	8	10
y	-2	0	2	4

- (A) $y = 6 - x$ (C) $y = x - 6$
 (B) $y = x + 6$ (D) $y = x \div 2 + 1$

21. What expression does not correspond with the equation $n + 6 = 35$?

- (A) The sum of a number and 6 is 35.
 (B) A number decreased by 6 is 35.
 (C) Six more than a number is 35.
 (D) The total of 6 and a number is 35.

22. What solution set does the graph of the number line indicate?



- (A) $x \geq -1$ (C) $x > -1$
 (B) $x \leq -1$ (D) $x < -1$

23. What is the value of x in the equation?

$$\frac{54}{x} = 3^3$$

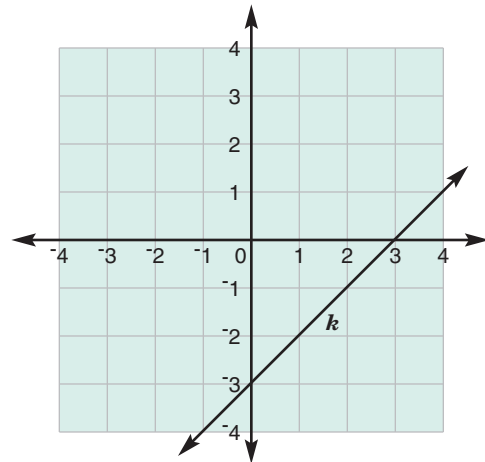
- (A) 6 (B) 18 (C) 9 (D) 2

24. What number completes the equation?

$$2(6 + 5) = 3(4 + \square) + 1$$

- (A) 5 (B) 4 (C) 3 (D) 2

25. What two pairs of coordinates indicate points on line k ?



- (A) (3, 3), (3, -3)
 (B) (2, -1), (1, -2)
 (C) (2, 1), (-1, 2)
 (D) (3, 3), (-3, -3)



TEACHER GUIDE

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For the Teacher

What is **TEST READY® Mathematics**?

TEST READY Mathematics is a review program that provides practice in math test-taking skills. The eight-level program is designed for students in grades 1 through 8. Each **TEST READY Mathematics** level is a 32-page book of twelve lessons, a Practice Test, and an Answer Form. The optional Pretest and an optional master of math-reasoning problems are included in the teacher guide.

- Lessons 1 through 12 are two-page lessons. The twelve lessons provide practice with number facts, computation, and major math concepts. Students employ critical-thinking skills to solve problems. Each of the first six lessons focuses on one of six major strands of mathematics: number sense (Lesson 1), operations (Lesson 2), data: charts and graphs (Lesson 3), patterns and algebra (Lesson 4), measurement (Lesson 5), and geometry (Lesson 6). Lessons 7–12 contain a mix of problems representing the six strands.
- The optional Pretest provides information regarding computation and the six strands before students begin the program. An optional Pretest appears in the teacher guide beginning on page 7.
- The Practice Test provides practice with computation and the six strands. The Practice Test, as well as the Pretest, allows students the opportunity to experience the test-taking process.
- The Answer Form provides students with the opportunity to record answers on a form similar to the ones used with most standardized assessments.
- **TEST READY Mathematics, Book 8**, reviews key math strategies introduced and developed in grade 8. Book 8 presents a total of 210 computation problems, 190 word problems, and 4 math-reasoning problems. In addition, 180 number facts are practiced.

NOTE: A reproducible master worksheet, featuring four problems that require math-reasoning strategies to solve them, is provided on page 5 of this teacher guide. The use of this master is optional.

How does **TEST READY® Mathematics, Book 8**, correlate to major standardized assessments and proficiency assessments?

Major standardized assessments vary on content, format, and level of difficulty. **TEST READY Mathematics** provides practice with a variety of widely used assessment formats and a broad range of grade-appropriate mathematics strategies that major standardized and proficiency assessments evaluate.

How does **TEST READY® Mathematics, Book 8**, correlate to the standard mathematics curriculum?

Problems included in each lesson of **TEST READY Mathematics, Book 8**, reflect the major content and skills areas that appear in the grade 8 mathematics curriculum.

Who should use **TEST READY® Mathematics, Book 8**?

TEST READY Mathematics, Book 8, is appropriate for use

- with eighth-grade students preparing for standardized assessments and proficiency assessments.
- with ninth-grade students at the beginning of the school year to pinpoint mastered and unmastered math concepts and skills.
- as a summer school course of study with students who need further instruction and practice in grade 8 mathematics.

Scope and Sequence for Book 8

Question Types	Lessons and Questions
Number Sense	1 (16–25); 7 (16, 19, 23); 10 (17, 24); 11 (16, 17, 24); 12 (23); PT and OP (21, 26, 27, 33, 39)
Operations	2 (16–25); 7 (20); 8 (17, 19, 21, 24); 9 (16, 17); 10 (21); 11 (21–23); 12 (16–19, 21, 25); PT and OP (18, 20, 25, 28, 29, 32, 34–36, 39–41, 43, 46, 47, 50)
Data and Probability	
• Graphs, Charts, and Tables	3 (16–18, 21–24); 7 (24); 8 (22); 9 (22–25); 10 (22); PT and OP (22–24)
• Mean, Median, Mode	3 (25); 9 (18); PT and OP (44)
• Probability	3 (19, 20); 7 (25); PT and OP (42)
Patterns and Algebra	4 (16–25); 7 (22); 8 (16, 20); 9 (19); 10 (20, 23, 25); 12 (20); PT and OP (16, 17, 30, 45)
Measurement	
• Standard and Metric	5 (16–25); 7 (17, 21, 23); 9 (20, 21); 10 (16, 18, 19); 11 (18, 20, 25); PT and OP (31, 38, 49)
Geometry	6 (16–25); 7 (18); 8 (18, 25); 12 (22, 24); PT and OP (19, 48)

NOTE: The boldface number in a set indicates the lesson. The numbers in parentheses indicate the questions. **PT** = Practice Test **OP** = Optional Pretest