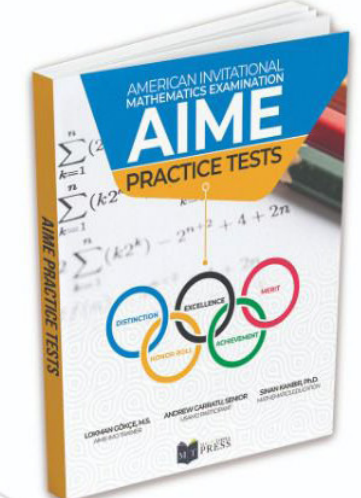
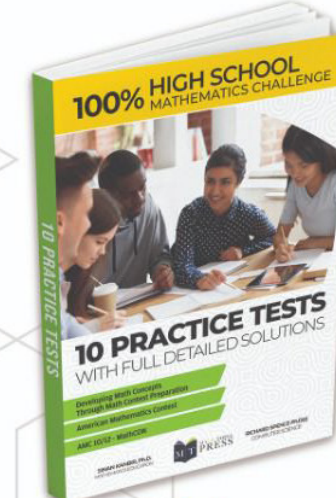
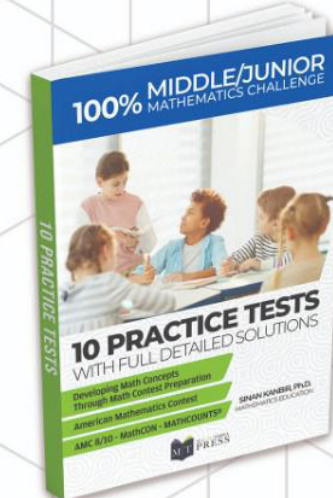
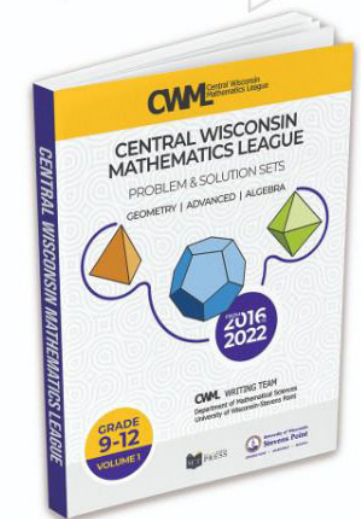
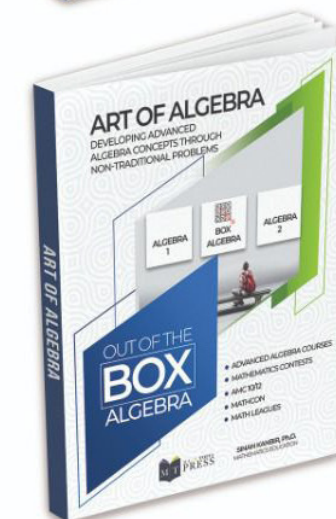
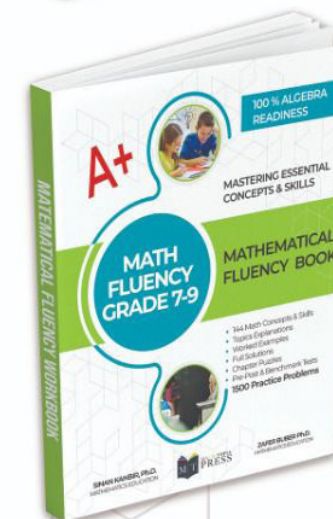
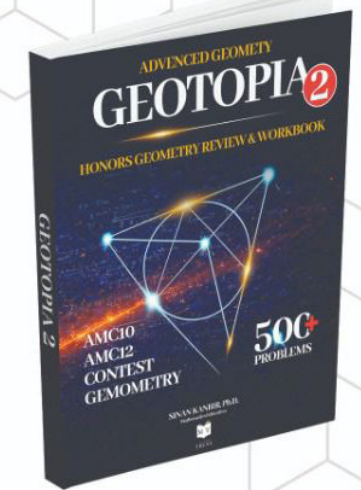
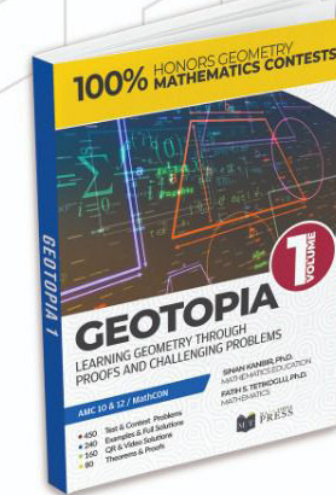
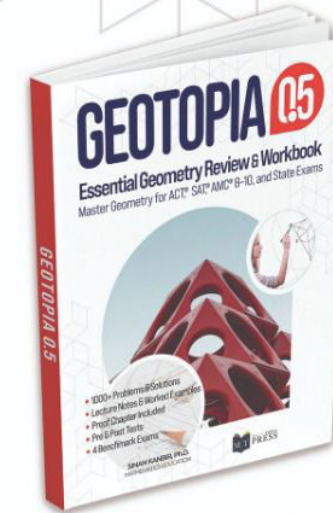


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1 Daily
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1 Math
Moment

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AUTHOR

Dr. Sinan Kanbir

Associate Professor of Mathematics Education
University of Wisconsin–Stevens Point

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GR 4–5

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Bridge Math

GRADE 4 → GRADE 5

Fluency • Problem Solving • Puzzles • Reflection

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BRIDGE MATH SERIES

Grade 3 → 4 • **Grade 4 → 5** • Grade 5 → 6

Grade 6 → 7 • Grade 7 → 8 • Grade 8 → 9

EDUCATIONAL NOTICE

This workbook supports mathematical fluency, reasoning,
problem solving, and reflection. Every effort has been made
to ensure the accuracy and clarity of its content.

Build Confidence. Bridge to Success.

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GR 4–5 Bridge Math

About the Author

Bridge Math: Grade 4 to Grade 5

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MATHEMATICS EDUCATOR AND AUTHOR

Dr. Sinan Kanbir is a mathematics educator, author, researcher, and problem-solving mentor. His work focuses on algebraic reasoning, mathematical fluency, curriculum design, and the preparation of future mathematics teachers.

He created the **Bridge Math**, **Mathematical Fluency**, and **GeoTopia** series. His books connect essential skills, conceptual understanding, visual reasoning, and creative problem solving so students can build confidence and prepare successfully for the next grade.

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Dedicated to every student who thinks deeply, perseveres through challenge, and discovers the beauty of mathematics.

Contents I

Days 1–15 • Student Pages 1–30

Each day includes 6 Skill Practice problems, 2 Practice problems, a Daily Puzzle, and a Math Moment.

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My 30-Day Math Journey

Progress Tracker • Grade 5 Readiness

Color or check one circle after each lesson. Every completed day moves you closer to your goal.

30 DAYS

15–20 MINUTES A DAY

GRADE 5 READY

DAYS 1–10 Build Strong Foundations



DAYS 11–20 Reason, Connect, and Grow



DAYS 21–30 Finish with Confidence



CELEBRATE YOUR PROGRESS

☐ 10 DAYS
Foundation Builder

☐ 20 DAYS
Confident Thinker

☐ 30 DAYS
Grade 5 Ready

A skill I am proud of improving:

My Grade 5 goal:



TODAY’S IDEA

! A digit’s value depends on its position in a number. Moving a digit one place to the left makes its value ten times as great. Rounding uses the digit immediately to the right.

Example: In 47,352, the digit 7 is in the thousands place, so its value is 7,000.

1 Fill in the blanks.

	Round to the nearest ten		Round to the nearest hundred
786		1004	
109		4444	
1344		1151	
2539		3549	

3 Selim writes three-digit numbers using the digits 3, 7, and 1. When the numbers are ordered from greatest to least, what is the fourth number?

3

7

1

5 Write each number in standard form.

a. $2 \times 10,000 + 3 \times 1000 + 4 \times 100 + 7 \times 10 + 1$

b. $8 \times 10,000 + 4 \times 1000 + 5 \times 10$

c. $5 \times 10,000 + 8 \times 100$

d. $4 \times 10,000 + 3 \times 1000 + 2 \times 10 + 6$

e. $6 \times 10,000 + 7 \times 1000 + 4 \times 100$

2 In base ten, 3421 is

_____ ones,

_____ tens,

_____ hundreds,

_____ thousands.

4 All digits in the five-digit number are different and even. Find $A + B$.

4A2B8

6 Sam is thinking of the number 9.52. Decide whether each expression has the same value.

a. Nine and fifty-two tenths

b. $9 + 0.5 + 0.02$

c. 9 ones + 5 tenths + 2 hundredths

d. $(9 \times 1) + (5 \times \frac{1}{10}) + (2 \times \frac{1}{100})$

e. 952 tenths

f. 952 hundredths

CONFIDENCE CHECK

I can read, write, compare, and round numbers using place value.

☐ Ready ☐ Getting There ☐ Need More Practice



PRACTICE 1

A teacher challenged her class to think about the number 154.25 in different ways. Decide whether each student’s reasoning is correct. Explain any incorrect reasoning.

Student 1: 154.25 is 15 tens, 4 ones, and 25 tenths.

Student 2: 154.25 is 150 ones and 42.5 tenths.

PRACTICE 2

In the number 76,422.1035, the digit 6 is in the thousands place and the digit 3 is in the thousandths place. How many times as great is the value of the thousands place as the value of the thousandths place?

$1,000 \div 0.001 = \underline{\hspace{2cm}}$

Compare the two place values by division.

DAILY PUZZLE

WHO AM I?

Find the three-digit number $\overline{abc}$.

a

b

c

- All digits are even.
- $a = c + 6$.
- $b < c$.
- The digit sum is 10.

TODAY’S MATH MOMENT

How does the value of a digit change when it moves one place to the left? Use a number example to explain your thinking.

TODAY’S IDEA

!

Line up numbers by place value when adding or subtracting. Regroup when needed. Estimate first, and use the inverse operation to check your answer.

Example: $6,204 - 2,786 = 3,418$. Check: $3,418 + 2,786 = 6,204$.

1

Find B .

$1,300 + A = 4,500$

$A + 1,500 = B$

$B =$

2

When 350 is subtracted from a number, the result is 850. What number is 1,200 greater than that number?

$\square - 350 = 850$

Final number =

3

Use the digits 3, 8, 0, and 2 exactly once in each number. Find the sum of the greatest four-digit number and the smallest four-digit number.

3

8

0

2

Sum =

4

Let A be the largest two-digit even number, B be the largest three-digit even number, and C be the smallest three-digit even number whose digits are all different. Find $A + B - C$.

$A + B - C =$

5

Each white cell equals the sum of its row header and column header. Find $\blacksquare + \bigcirc$.

+	204	56
314	518	○
120	■	176

$\blacksquare + \bigcirc =$

6

Each symbol represents a different digit. Find the value of each symbol in the addition.

△

5

0

8

○

2

+

6

6

□

2

4

2

9

△ =

○ =

□ =

CONFIDENCE CHECK

I can add and subtract multi-digit numbers and solve related problems.

☐ Ready

☐ Getting There

☐ Need More Practice

TODAY’S IDEA

!

Multiplication can represent equal groups, arrays, and area. Break apart a number into easier parts, then combine the partial products.

Example: $24 \times 3 = (20 \times 3) + (4 \times 3) = 60 + 12 = 72$.

1

Which of the following is correct?

a. $1 \times 6 + 1 \times 6 = 16$

b. $0 \times 8 + 8 \times 0 = 16$

c. $2 \times 4 + 2 \times 4 = 16$

d. $2 \times 8 + 2 \times 8 = 16$

3

Choose two different numbers from the set $\{2, 5, 6\}$.

What is the sum of the minimum and maximum possible products?

Sum =

5

A rectangular garden has whole-number side lengths and an area of 72 square feet. List all possible perimeters of the garden.

72 ft²

Possible perimeters:

2

Rectangle $ACFD$ is shown. Which expression represents the yellow-shaded area?

A

B

C

9 cm

14 cm

D

E

F

a. $10(14 - 9)$

b. $9(14 - 10)$

A, B, and C represent three different digits.

Find $B + C$.

4

2A

$\times 3$

72

17

$\times A$

BC

$B + C =$

6

If a , b , and c are positive numbers and

$a \times b = 13$

$b \times c = 52$

$c \times a = 4$

$a \times b \times c =$

CONFIDENCE CHECK

I can use multiplication facts, models, and reasoning to solve problems.

☐ Ready

☐ Getting There

☐ Need More Practice

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PRACTICE 1

In the expression below, each blank is filled with one of the digits 2, 3, 4, or 5, and each digit is used exactly once. How many different values can be obtained?

$(\square \times \square) + (\square \times \square)$

2

3

4

5

Different values:

PRACTICE 2

What is the power of 3 in the prime factorization of the product below?

$3 \cdot 6 \cdot 9 \cdot 12 \cdot 15 \cdot 18 \cdot 21 \cdot 24 \cdot 27 \cdot 30$

Count one factor of 3 from every multiple. Then count the extra factors in 9, 18, and 27.

Power:

DAILY PUZZLE

MAKE THE TARGETS

Use each digit 1, 2, 3, and 4 exactly once in each expression.
Use +, −, $\times$, $\div$, and parentheses.

6 =

7 =

8 =

9 =

10 =

TODAY’S MATH MOMENT

What multiplication strategy helped you most today?
Use an example to explain why it works.

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TODAY'S IDEA

Use place value and the distributive property to break a multiplication problem into smaller products. Then combine the partial products.
Example: $24 \times 53 = 24 \times (50 + 3) = 1,200 + 72 = 1,272$.

1 The reptile house has 5 glass tanks, and each tank contains 6 turtles. If each turtle lays 2 eggs, how many turtle eggs are there in total in the reptile house?

3 Which of the expressions below gives the same answer as 4×198 ? Circle your answer.
A) $4 \times 200 - 2$ B) $4 \times 200 - 4$
C) $4 \times 200 - 6$ D) $4 \times 200 - 8$

5 Find the values to make equations true.
a) $12 \times 4 = 6 \times a$
b) $5 \times 8 = 4 \times t$
c) $k \times 3 = 4 \times 9$

2 In a banquet hall, there are 23 large rectangular tables set up. Each table can seat 12 people. How many people can sit in this banquet hall?

4 Find the missing values.
a) $(19 \times 25) \times 9 = 19 \times (25 \times \blacksquare)$
b) $45 \times (\bigcirc \times \blacktriangle) = (45 \times 3) \times 6$

6 A rectangle is divided into four smaller rectangles. The area of three of these rectangles are 6, 15 and 25, as shown. What is the area of the shaded rectangle?



CONFIDENCE CHECK

I can use multiplication properties and strategies to solve problems.

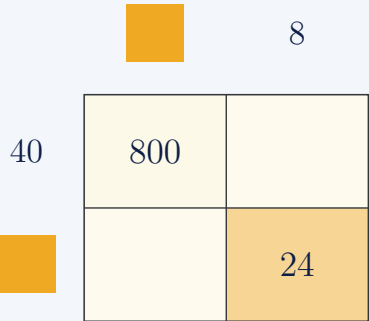
☐ Ready ☐ Getting There ☐ Need More Practice

PRACTICE 1

- a) Use the distributive property to calculate 23×45 in one or more ways.
- b) Use the distributive property to calculate 6×38 in one or more ways.
- c) 6×12 (Try to find several different ways to solve this problem mentally.)

PRACTICE 2

In the figure, some numbers got black out. What is the area of the rectangle?



DAILY PUZZLE

SHAPE CHALLENGE

 +  +  = 18

 +  +  = 9

 $\times$  -  = 6

 $\times$  -  = ?

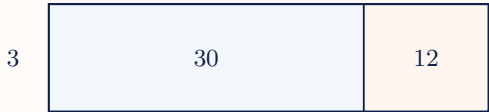
TODAY'S MATH MOMENT

How does the distributive property help you multiply larger numbers? Use an example to explain your thinking.

TODAY’S IDEA

! Division separates a quantity into equal groups. A remainder tells how many are left after making all possible equal groups.
Example: $52 \div 5 = 10 \text{ R } 2$. Ten vans are full, but the remaining two people need one more van, so 11 vans are needed.

1 Find $42 \div 3$. Use the area model.



$42 \div 3 = \underline{\hspace{2cm}}$

3 Among the choices below, what is the largest natural number whose quotient is 4 when divided by 8?

a) 31

b) 33

c) 35

d) 37

5 Use the two equations to find b .

$$30 \div a = 2 \times 5$$
$$a + b = 27 - 15$$

$b = \underline{\hspace{2cm}}$

2 A sports team of 52 people needs to travel in vans that hold 5 people each. What is the minimum number of vans needed for the trip?

$$52 \div 5 = 10 \text{ R } 2$$

Minimum vans = $\underline{\hspace{2cm}}$

4 In a division problem, the quotient is 20 and the divisor is 5. If the remainder is as large as possible, what is the dividend?

$$\text{dividend} = \text{divisor} \times \text{quotient} + \text{remainder}$$

The remainder must be less than 5.

Dividend = $\underline{\hspace{2cm}}$

6 Karen gives her age as an algebra problem: “Eight times my age, divided by 12, is equal to 24.” What is Karen’s age?

$$\frac{8x}{12} = 24$$

Karen’s age = $\underline{\hspace{2cm}}$

CONFIDENCE CHECK

I can divide whole numbers and interpret remainders in different situations.

☐ Ready

☐ Getting There

☐ Need More Practice

PRACTICE 1

For how many positive values of y is $\frac{80}{y}$ an integer?

$$\frac{80}{y} \in \mathbb{Z}$$

Hint: list the positive factor pairs of 80.

Number of values = $\underline{\hspace{2cm}}$

PRACTICE 2

The letters A , B , and C represent digits. Find all values that make the division statement true.

$$\overline{4AB2} \div \overline{8C} = 48$$

Use $\overline{4AB2} = 48 \times \overline{8C}$.

Solutions: $\underline{\hspace{2cm}}$

DAILY PUZZLE

WHO AM I?

I am the smallest three-digit number that satisfies all three clues.

1. I am divisible by 9.
2. My digits are consecutive numbers.
3. My units digit is greater than 4.

The number is $\underline{\hspace{2cm}}$.

TODAY’S MATH MOMENT

How can a remainder change the answer to a real-world division problem? Give an example to explain your thinking.

TODAY’S IDEA

!

Read carefully to decide which operations are needed. Estimate first, solve one step at a time, and check whether the final answer makes sense.

Example: $70 \div 8 = 8 \text{ R } 6$. Salena can make 8 bracelets and will have 6 beads left over.

1

Salena has 70 beads. She uses 8 beads for each bracelet. She makes as many bracelets as possible. How many beads will Salena have left over?

2

When a number is divided by 7, it gives a quotient of 4 with a remainder of 6. What is the number?

3

Jacques climbs 3,560 feet in 7 days. Which equation uses compatible numbers to find the best estimate of the number of feet he climbs each day?
A) $3,500 \div 7 = 500$
B) $3,000 \div 5 = 600$
C) $3,560 \div 10 = 356$
D) $4,000 \div 10 = 400$

4

Between which two numbers is $4,482 \div 6$?

300

400

600

700

800

The quotient is between _____ and _____.

5

At a school, 604 desks are divided equally among 18 classrooms. What is the greatest equal number of desks that can be placed in each classroom, and how many desks will remain?

6

The combined cost of a blender and a microwave is \$145.50. The microwave costs \$15.75 less than four times the cost of the blender. How much does the microwave cost?

CONFIDENCE CHECK

I can choose operations, solve step by step, and check whether my answer makes sense.

☐ Ready

☐ Getting There

☐ Need More Practice

PRACTICE 1

Emily’s family picked 200 apples from their apple tree. They kept 15 apples for themselves and shared the remaining apples evenly among 5 other families. Which equation can be used to determine how many apples each other family received?

a) $(200 - 15) \div 5 = n$

b) $(200 - 5) \div 15 = n$

c) $(200 + 15) \div 5 = n$

d) $(200 + 5) \div 15 = n$

PRACTICE 2

Use the partial-quotients work shown. Continue the division to find the quotient and remainder for $9,475 \div 4$.

4

9,475

–8,000

1,475

FIRST PARTIAL QUOTIENT

2,000

$4 \times 2,000 = 8,000$

DAILY PUZZLE

MAKE 100
 $1\ 2\ 3\ 4\ 5\ 6\ 7\ 8\ 9\ 0 = 100$
Insert + or – signs to make a true equation. You may join neighboring digits to form multi-digit numbers. Keep the digits in order and use every digit exactly once.

TODAY’S MATH MOMENT

How can estimation help you decide whether a quotient or a multi-step answer is reasonable? Use an example to explain your thinking.

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