

Massachusetts

Grade **3** to Grade **4**

Math Summer Bridge

3



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ViewMath
Dr. A. Nazari
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Massachusetts MCAS Grade 3 to Grade 4

Math Summer Bridge

8-Week Review and Readiness with Answer Key

Dr. A. Nazari

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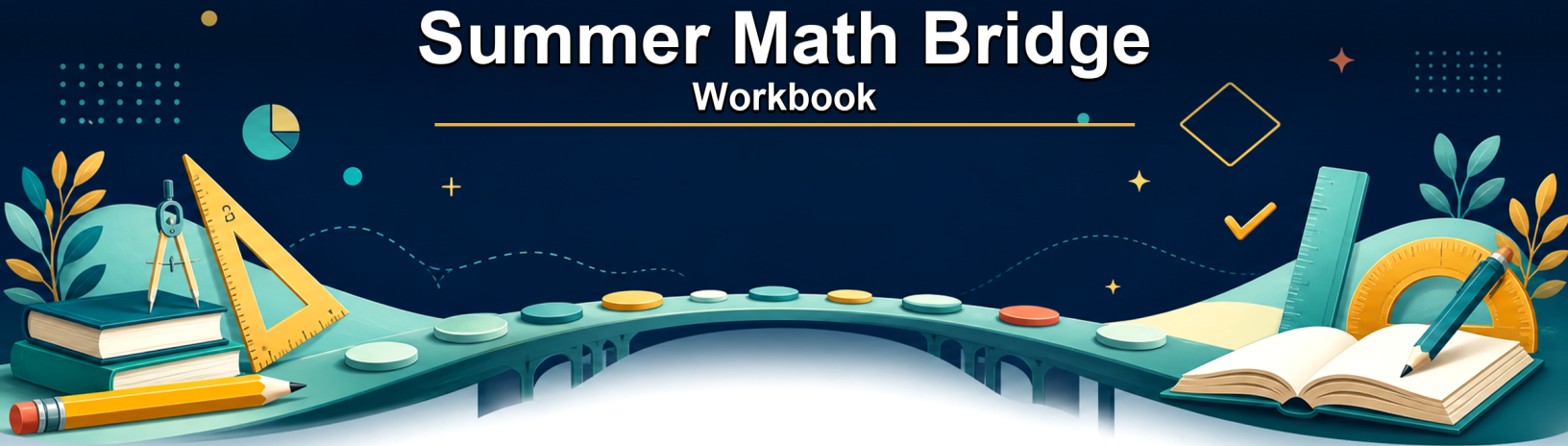
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Summer Math Bridge

Workbook



This book is a bridge: it keeps Grade 3 math strong while making the first month of Grade 4 feel familiar.

Students revisit the Grade 3 ideas that matter most—place value, operations, multiplication and division, fractions, measurement, data, area, perimeter, and geometry—then preview the Grade 4 language connected to those skills. Parents and teachers get a clear summer plan without needing to build one from scratch.



For families and teachers

Use one page per day, about 10–15 minutes. Let students try first, then use the answer explanations as quick reteaching after mistakes. Friday quizzes show which skills are ready and which need another short review.

For students

Keep your work neat, show your thinking, and fix missed problems. The goal is not to rush through the book; the goal is to start Grade 4 ready to build on what you already know.

How to Use This Bridge Book

The page order is the plan.

Move through the book one day at a time. Each week has four short lesson days and one Friday quiz, so the routine stays predictable even when summer is busy.



Lesson days Read the short review, notice the Quick Review, and complete the 6 practice problems.

Quiz day Complete the 10-question mixed quiz without rushing. Use it to see what stuck from the week.

Review answers Check the answer key, then read the explanation for every missed problem. Correct the work in pencil before moving on.

Extra support If a skill is shaky, do one similar problem the next day before starting the new page.

**Keep it short**

Most lesson pages should take about 10-15 minutes. Stop before practice turns into frustration.

**Show thinking**

Use equations, quick models, number lines, labels, or scratch work. Organized work is a Grade 4 habit.

**Fix mistakes**

A corrected mistake is useful practice. The answer key is written to reteach, not only to score.

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My Bridge Book Progress

Check off each lesson and write your Friday quiz score.

This bridge book belongs to: _____

Week	Mon	Tue	Wed	Thu	Friday Quiz
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____ / 10
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____ / 10
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____ / 10
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____ / 10
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____ / 10
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____ / 10
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____ / 10
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	____ / 10

Reflection Notes

After any Friday quiz, write the question number, what you noticed, and one comment that will help you next time. Use this space for problems you missed, guessed on, or want to remember.

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Your 8-week summer review plan

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A little review each day keeps math fresh!



BRIDGEWEEK

1

Place Value and Rounding

Review now. Step into Grade 4 next.

This Week's Bridge Path

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Day 1 Place Value: Thousands and Beyond

BRIDGE SKILL

Quick Review: You know ones, tens, hundreds, and thousands from Grade 3. Grade 4 stretches that same place-value pattern to larger numbers, so the key idea is that each place is ten times the place to its right.

A 4-digit number has a thousands place, and the same pattern can extend to ten-thousands.

Thousands	Hundreds	Tens	Ones
3	5	2	7
3,000	500	20	7

- ✓ Read 3,527 as 3 thousands, 5 hundreds, 2 tens, and 7 ones.
- ✓ Expanded form shows each digit's value; word form writes the same number in words.
- ✓ Compare numbers from left to right, starting with the greatest place.
- ✓ A zero in the middle keeps the other digits in the right places.
- ✓ In 42,318, the 4 is in the ten-thousands place and is worth 40,000.

Use each digit's place before deciding its value.

- 1 Write 2,846 in expanded form. _____

Th	H	T	O
2	8	4	6
2,000	800	40	6

- 2 Write 6,103 in word form. _____

- 3 What is the value of the underlined digit? 4,328 _____

- 4 Fill in <, >, or =: 3,609 _____ 3,690

- 5 $8,000 + 200 + 50 + 1 =$ _____

8,000 200 50 1 → 8,251

- 6 What is the value of the underlined digit? 72,405 _____



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Day 3 Grade 4 Preview: Place Value and Expanded Form

BRIDGE SKILL

Quick Review: This is a Grade 4 preview. The same expanded-form thinking from Grade 3 now includes ten-thousands and hundred-thousands, which prepares you for numbers up to one million.

Grade 4 students grow toward very large whole numbers. Start with numbers through one million, then notice that the same period pattern continues.

- ✓ Read large numbers by **periods**: millions, thousands, and ones.
- ✓ Each period has up to three digits. Say the number in the period, then say the period name.
- ✓ A digit's value equals the digit times its place value.
- ✓ Expanded form writes a number as the sum of its nonzero place values.
- ✓ Zeros are placeholders. They keep other digits in the correct places but are not written as addends.
- ✓ The same pattern can extend past millions later in Grade 4.

Millions	Thousands	Ones
1	348	206
1,000,000	348,000	206

1,348,206 is read by periods

- 1 In 704,650, what is the value of the digit 7? _____
- 2 Write 1,031,200 in words. _____
- 3 Write 590,402 in expanded form. _____

HTh	TTh	Th	H	T	O
5	9	0	4	0	2
500,000	90,000	0	400	0	2

- 4 $4,000,000 + 600,000 + 30,000 + 8,000 + 5 =$ _____
- 5 What number has 9 hundred-thousands, 2 ten-thousands, 7 thousands, and 4 hundreds?

- 6 Bridge challenge: In 6,418,205, which digit is in the hundred-thousands place? _____

M	HTh	TTh	Th	H	T	O
6	4	1	8	2	0	5

hundred-thousands



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 **Week 1 Quiz**

Place Value and Rounding Bridge Check

Name: _____

Date: _____

Score: _____/10

1 Which number is $4,000 + 700 + 20 + 6$?

A. 4,726

B. 47,026

C. 4,276

D. 472

2 Write 38,405 in expanded form. _____

3 Fill in $<$, $>$, or $=$. $6,208$ _____ $6,280$

4 Round 7,463 to the nearest hundred. _____



5 True or False: 9,006 is odd.

 True

 False

6 What is the value of the underlined digit? $52,\underline{7}31$ _____

7 Order from least to greatest: 18,042, 18,420, 18,204. _____

8 A library has 5,782 books. About how many books is that to the nearest thousand? _____

9 Which number has 3 ten-thousands, 0 thousands, 6 hundreds, 4 tens, and 9 ones?

A. 36,049

B. 30,649

C. 3,649

D. 306,049

TTh	Th	H	T	O
3	0	6	4	9

10 Explain why $48,019 > 47,999$. _____



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BRIDGEWEEK

8

Area, Perimeter, Lines, and Shapes

Review now. Step into Grade 4 next.

This Week's Bridge Path

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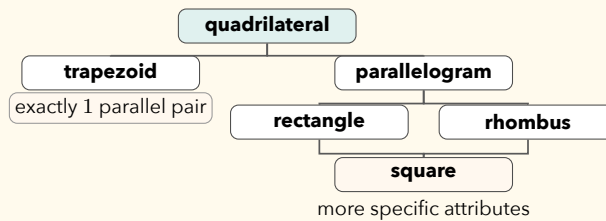
Day 4 Grade 4 Preview: Classify Shapes

BRIDGE SKILL

Quick Review: This is a Grade 4 preview. Use Grade 3 shape attributes, then add parallel sides, perpendicular sides, angle types, and symmetry.

Classify figures by attributes and by shape families.

- ✓ A polygon is closed and made only of straight sides.
- ✓ Triangles have 3 sides; quadrilaterals have 4.
- ✓ Pentagon = 5 sides, hexagon = 6, octagon = 8, decagon = 10.
- ✓ Triangles can be acute, right, or obtuse.
- ✓ In this book, a trapezoid has exactly 1 pair of parallel sides.
- ✓ A square is also a rectangle, rhombus, parallelogram, and quadrilateral.



- 1 How many sides does a decagon have? _____
- 2 A quadrilateral has exactly 1 pair of parallel sides. What is the most specific name?
- 3 True or false: Every square is also a rhombus. True False
- 4 True or false: Every rhombus is also a square. True False
- 5 A triangle has angles 42° , 48° , and 90° . What type of triangle is it?
- 6 A shape has 4 sides, 2 pairs of parallel sides, and 4 right angles, but not all sides are equal. What is it?



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Answers with Explanations

Check your answers, then use the explanations to understand any missed problem.

How to use this section

First

Complete the lesson practice or Friday quiz before looking at this section.

Record

Write your answers clearly on the page so you can compare them later.

Check

Use the answer key to mark each problem correct or incorrect.

Explain

For any problem you missed, guessed on, or found confusing, read the explanation and add a quick note beside your work.

📅 Week 1 Day 1: Place Value: Thousands and Beyond

✓ Answers

1 $2,000 + 800 + 40 + 6$

2 six thousand, one hundred three

3 4,000

4 <

5 8,251

6 70,000

💡 Explanations

1 Read the digits by place value: 2 thousands, 8 hundreds, 4 tens, and 6 ones. Expanded form writes each value as an addend, so $2,846 = 2,000 + 800 + 40 + 6$.

2 Word form says the value of the thousands and hundreds places in words. The 0 tens does not need to be named, so 6,103 is six thousand, one hundred three.

3 In 4,328, the underlined 4 is in the thousands place. A thousands digit tells how many groups of 1,000 there are, so 4 thousands is 4,000.

4 Compare from left to right. The thousands and hundreds digits match, but 0 tens is less than 9 tens, so $3,609 < 3,690$.

5 Match each addend to its place: 8,000 is 8 thousands, 200 is 2 hundreds, 50 is 5 tens, and 1 is 1 one. Those digits form the number 8,251.

6 The underlined 7 is in the ten-thousands place. That means it represents 7 groups of 10,000, so its value is 70,000.

📅 Week 1 Day 3: Grade 4 Preview: Place Value and Expanded Form

✓ Answers

1 700,000

2 One million, thirty-one thousand, two hundred

3 $500,000 + 90,000 + 400 + 2$

4 4,638,005

5 927,400

6 4

💡 Explanations



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- 1 The digit 7 is in the hundred-thousands place. Its value is $7 \times 100,000 = 700,000$.
- 2 Read the number by periods from left to right. The periods are 1 million, 031 thousand, and 200 ones.
- 3 Expanded form names each nonzero digit's value. The zeros hold places, so the addends come from the 5, 9, 4, and 2.
- 4 Combine the expanded-form parts by placing each value in its correct period. The millions period is 4, the thousands period is 638, and the ones period is 005.
- 5 Use place value to put each digit in the named place. The values are 900,000, 20,000, 7,000, and 400, which make 927,400.
- 6 Count the thousands period as hundred-thousands, ten-thousands, and thousands. In 6,418,205, the digit 4 is in the hundred-thousands place.

📅 Q1: Week 1 Quiz

✔ Answers

- 1 A 2 $30,000 + 8,000 + 400 + 5$ 3 $<$ 4 7,500 5 False 6 700
- 7 18,042, 18,204, 18,420 8 6,000 9 B 10 The thousands place is greater.

💡 Explanations

- 1 Expanded form names each place-value part. The thousands, hundreds, tens, and ones are 4, 7, 2, and 6, so the number is 4,726.
- 2 Use the value of each nonzero digit. The 3 is worth 30,000, the 8 is worth 8,000, the 4 is worth 400, and the 5 is worth 5.
- 3 Both numbers have 6 thousands and 2 hundreds. The tens place decides because 0 tens is less than 8 tens.



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- 4 To round to the nearest hundred, look at the tens digit. The tens digit is 6, so round 7,400 up to 7,500.
- 5 Use the ones digit to decide even or odd. The ones digit is 6, so the number is even, not odd.
- 6 The underlined 7 is in the hundreds place. Seven hundreds has a value of 700.
- 7 All three numbers have 18 thousand, so compare the hundreds. 0 hundreds comes first, then 2 hundreds, then 4 hundreds.
- 8 To round to the nearest thousand, look at the hundreds digit. The hundreds digit is 7, so 5,782 rounds up to 6,000.
- 9 Write each place in order, including the zero thousands place. The digits are 3, 0, 6, 4, 9, so the number is 30,649.
- 10 Compare from left to right. The ten-thousands digits are both 4, but 48,019 has 8 thousands while 47,999 has 7 thousands, so 48,019 is greater.

📅 Week 8 Day 1: Area of Rectangles

✓ Answers

1 24 square units

2 24 square cm

3 25 square inches

4 C

5 True

6 36 square feet

💡 Explanations

1 Area counts how many unit squares cover the inside of the rectangle. With 4 rows of 6 squares, multiply $4 \times 6 = 24$ square units.

2 For a rectangle, area is length times width because that counts the rows and columns of unit squares. $8 \times 3 = 24$, so the area is 24 square centimeters.



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- 3 A square has all sides the same length, so a side length of 5 inches makes a 5 by 5 array. $5 \times 5 = 25$, and area is labeled in square inches.
- 4 Area of a rectangle is found by multiplying the two side lengths, not by adding around the outside. For a 7 by 2 rectangle, the correct expression is 7×2 .
- 5 Area measures the amount of flat space inside a shape. Because that space is covered by unit squares, the unit must be square units.
- 6 The garden is a rectangle, so multiply length by width to find the space inside it. $9 \times 4 = 36$, so the area is 36 square feet.

📅 Week 8 Day 4: Grade 4 Preview: Classify Shapes

✓ Answers

- 1 10 sides 2 Trapezoid 3 True 4 False 5 Right triangle 6 Rectangle

💡 Explanations

- 1 Polygon names tell the number of straight sides. The prefix dec- means 10, so a decagon has 10 sides and 10 vertices.
- 2 In this book, a trapezoid has exactly one pair of parallel sides. Since the problem says exactly one pair, it is not a parallelogram, rectangle, rhombus, or square.
- 3 A rhombus is a quadrilateral with all four sides equal. A square has all four sides equal, so every square fits the rhombus family.
- 4 A square must have four right angles as well as four equal sides. A rhombus may have slanted angles, so not every rhombus is a square.
- 5 Classify a triangle by looking for angle benchmarks. This triangle has one 90° angle, so it is a right triangle.



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6

The shape is a quadrilateral and a parallelogram because it has 2 pairs of parallel sides. Four right angles make it a rectangle, and it is not a square because all sides are not equal.

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