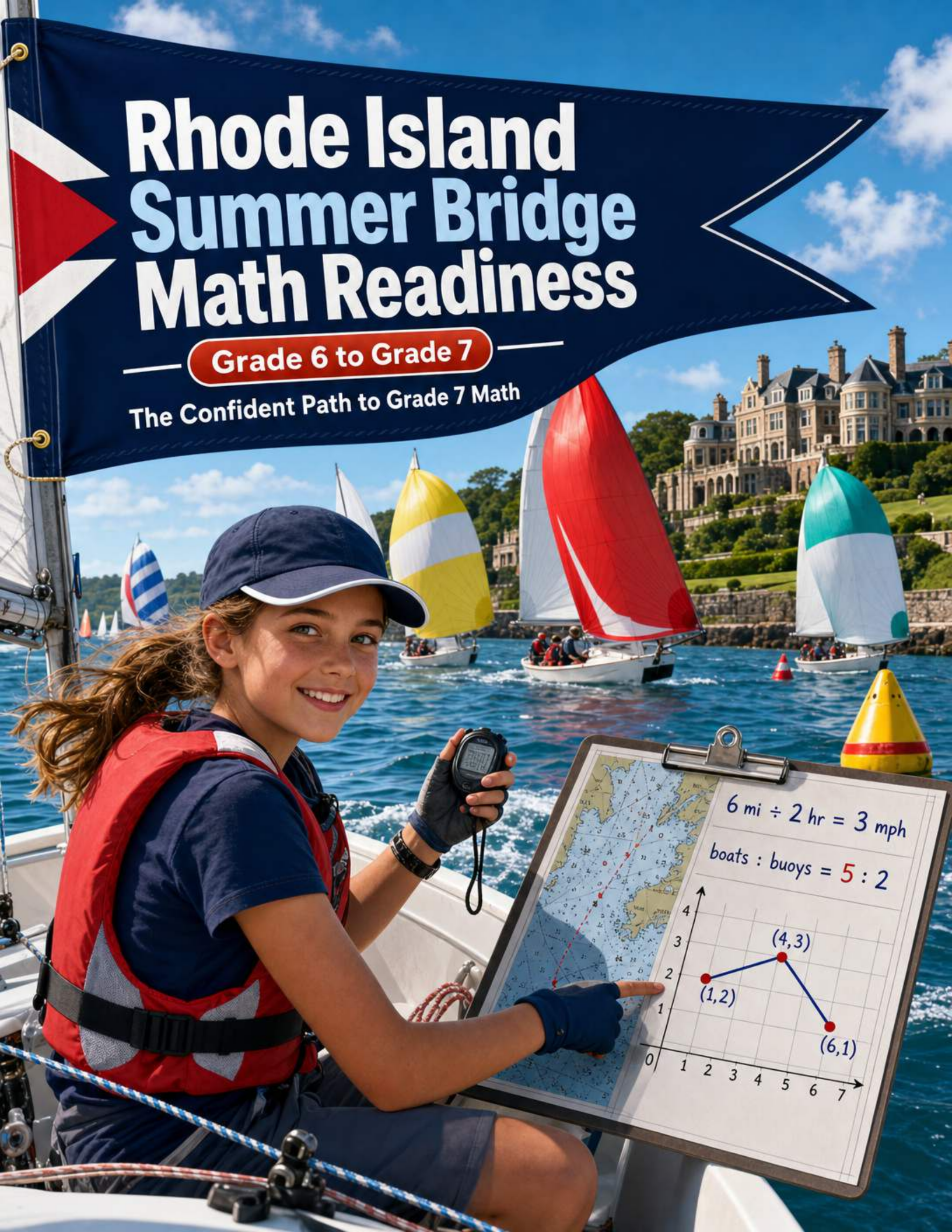
Rhode Island Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE
6 TO 7

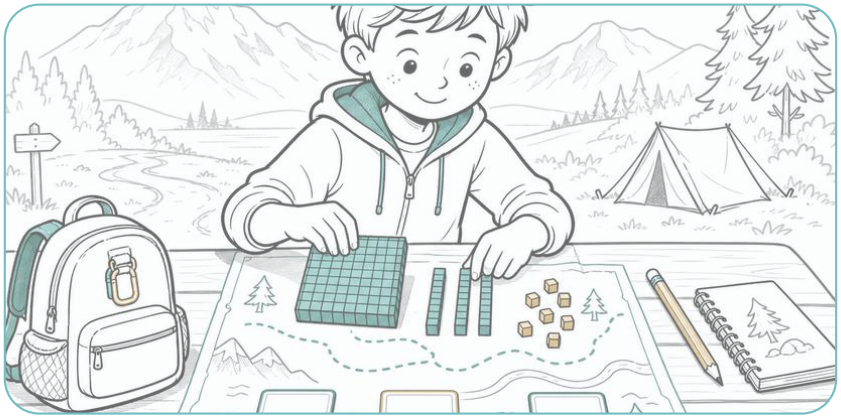
Summer Bridge

MATH
SUMMER
BRIDGE

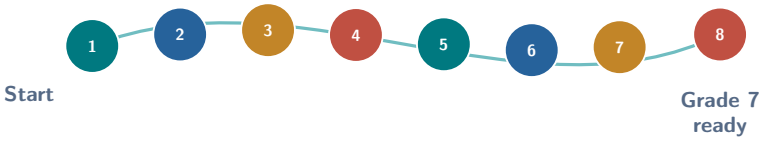
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Grade 6 to 7 Math

8-Week Summer Bridge



40 focused practice days • weekly activities + games • answer key



Review Preview Practice Celebrate

A steady bridge from Grade 6 skills into confident Grade 7 readiness.

Reza Nazari

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Rhode Island Grade 6 to 7 Summer Bridge

By Reza Nazari

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Week 1

Ratios, Rates, and Proportions

Comparing two quantities and finding the rate that ties them together.



Bridge goal: Lock in the ratio and unit-rate habits that Grade 7 proportional reasoning is built on.

D1 D2 D3 D4 D5 Game 1 Game 2

Scan Me

Day 1

D1 D2 D3 D4 D5 ★ Fun Review 6.RP.A.3



Understanding Ratios

A ratio compares two amounts. Write them in the order the problem names, every time.

★ **Learn it** A **ratio** compares two quantities. You can compare one part with another part (*part-to-part*) or one part with the whole group (*part-to-whole*). The same ratio can be written three ways: with the word "to," with a colon, or as a fraction. Order matters — write the quantities in the order the problem names them. A ratio is in **simplest form** when both numbers share no common factor larger than 1.

Example. A bag has 6 red and 9 blue marbles. Write red to blue in simplest form.

⇒ Red to blue is 6 : 9. Both divide by 3, so the simplest form is 2 : 3.

1. A pizza has 3 cheese slices and 5 veggie slices. Write the ratio of cheese to veggie slices.

☐ **A.** 5 : 3
☐ **B.** 3 : 8
☐ **C.** 3 : 5
☐ **D.** 8 : 3

2. The visual cards show two parts of a group. What is the ratio of the first part to the second part in simplest form?

First part	Second part
4	4

☐ **A.** 1 : 2
☐ **B.** 4 : 4
☐ **C.** 1
☐ **D.** 1 : 1

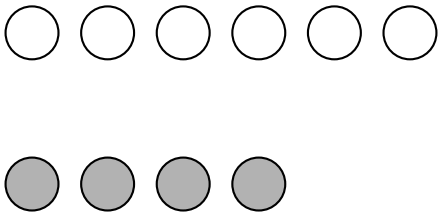
3. A parking lot has 14 cars and 6 trucks. Write the ratio of trucks to *all* vehicles in simplest form.

☐ **A.** 6 : 14
☐ **B.** 3 : 10
☐ **C.** 7 : 10
☐ **D.** 10 : 3

4. A fruit basket holds 4 pears and 6 apples. Write the ratio of pears to apples in simplest form.

☐ **A.** 2 : 3
☐ **B.** 3 : 2
☐ **C.** 4 : 6
☐ **D.** 2 : 5

5. The diagram shows circles representing marbles. What is the ratio of white marbles to gray marbles?



White Marbles

Gray Marbles

☐ A. 2 : 3

☐ B. 3 : 2

☐ C. 4 : 6

☐ D. 6 : 4

6. In a club, the ratio of left-handed to right-handed students is 2 : 7. If there are 27 students in all, how many are left-handed?

☐ **A.** 7

☐ **B.** 6

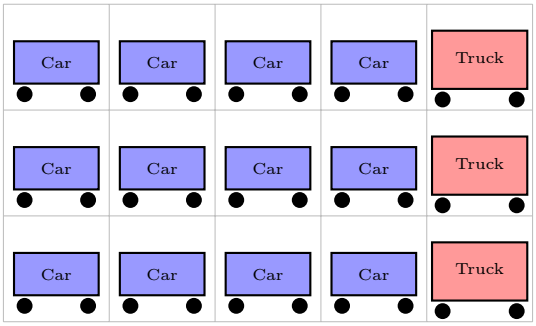
☐ **C.** 9

☐ **D.** 18

7. There are 6 red marbles and 9 blue marbles in a bag. Write the ratio of red marbles to blue marbles in simplest form.

Write your answer in this box.

8. The parking lot diagram shows cars and trucks. What is the ratio of cars to trucks?



Parking Lot

☐ A. 3 : 1

☐ B. 4 : 1

☐ C. 5 : 1

☐ D. 1 : 4

☐ A. $10 per hour

☐ B. $11 per hour

☐ C. $12 per hour

☐ D. $13 per hour

★ Challenge! Think a little deeper

13. A store sells apples for $1.20 per pound. If you buy 3.5 pounds of apples, how much will you pay?

☐ A. $3.60

☐ B. $4.00

☐ C. $4.20

☐ D. $4.40

14. Which of these is written as a unit rate?

☐ **A.** $4 per pound

☐ **B.** 3 : 4

☐ **C.** 12 for 4

☐ **D.** 2 to 5



Deep thinking: Show your strategy, then write and solve one harder version.

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Day 4

D1 D2 D3 D4 D5

★ Fun Review 6.RP.A.2, 6.NS.A.1

Comparing Rates

Shrink each rate down to its unit rate, then the better or faster one is easy to spot.

★ **Learn it** To compare two rates fairly, turn each one into a **unit rate** first — the "per one" amount — then compare. For speed, the *higher* unit rate is faster. For price, the *lower* unit rate is the better buy. Decide which direction counts as "better" before you choose.

Example. Which is cheaper: 3 cans for \$2.40 or 5 cans for \$4.00?

$\Rightarrow$ \$2.40 ÷ 3 = \$0.80 per can; \$4.00 ÷ 5 = \$0.80 per can. They cost the same per can.

1. Printer A makes 96 copies in 8 minutes. Printer B makes 75 copies in 5 minutes. Which printer is faster per minute?

☐ **A.** Printer A (12)
☐ **B.** Printer B (15)
☐ **C.** They tie
☐ **D.** Printer A (15)

2. The visual cards show a distance and a time. What is the unit rate in miles per hour?

Distance	Time
45 miles	3 hours

☐ **A.** 17
☐ **B.** 15
☐ **C.** 48
☐ **D.** 13

3. Runner X runs 5 miles in 40 minutes. Runner Y runs 4 miles in 32 minutes. Who is faster?

☐ A. Runner X
☐ B. Runner Y
☐ C. Both runners are equally fast.
☐ D. Runner X ran fewer miles, so Runner Y is faster.

4. Brand X sells a 12-ounce bottle of shampoo for \$9. Brand Y sells a 16-ounce bottle for \$11. Which brand costs less per ounce?

☐ A. Brand X is cheaper per ounce.
☐ B. Brand Y is cheaper per ounce.
☐ C. Both brands cost the same per ounce.
☐ D. Brand Y because the bottle is larger.

5. The visual cards show a distance and a time. What is the unit rate in miles per hour?

Distance	Time
75 miles	5 hours

☐ **A.** 17
☐ **B.** 15
☐ **C.** 13
☐ **D.** 80

Scan Me

6. Printer P prints 60 pages in 5 minutes. Printer Q prints 90 pages in 8 minutes. Which printer is faster?

☐ A. Printer P

☐ B. Printer Q

☐ C. Both printers print at the same speed.

☐ D. Printer Q printed more pages, so it is faster.

7. Bakery P bakes 18 cookies in 3 hours. Bakery Q bakes 28 cookies in 4 hours. Which bakery bakes faster?

☐ A. Bakery P bakes faster.

☐ B. Bakery Q bakes faster.

☐ C. Both bakeries bake at the same speed.

☐ D. Bakery Q because 28 is more than 18.

8. The visual cards show a distance and a time. What is the unit rate in miles per hour?

Distance	Time
45 miles	3 hours

☐ **A.** 15

☐ **B.** 13

☐ **C.** 48

☐ **D.** 17

9. Athlete A swims 300 meters in 6 minutes. Athlete B swims 250 meters in 5 minutes. Who swims faster?

☐ A. Athlete A is faster.

☐ B. Athlete B is faster.

☐ C. Both swimmers have the same speed.

☐ D. Athlete A swam more meters, so is faster.

10. Store X sells 5 pens for $4.00. Store Y sells 8 pens for $6.00. Which store is cheaper per pen?

☐ **A.** Store X ($0.80)

☐ **B.** Same price

☐ **C.** Store X ($0.75)

☐ **D.** Store Y ($0.75)

11. Omar types 156 words in 3 minutes. Sofia types 210 words in 4 minutes. How many more words per minute does the faster typist type? Give your answer as a whole number or decimal.

Write your answer in this box.

12. The visual cards show a distance and a time. What is the unit rate in miles per hour?

Distance	Time
16 miles	2 hours

☐ **A.** 6

☐ **B.** 8

☐ **C.** 18

☐ **D.** 10