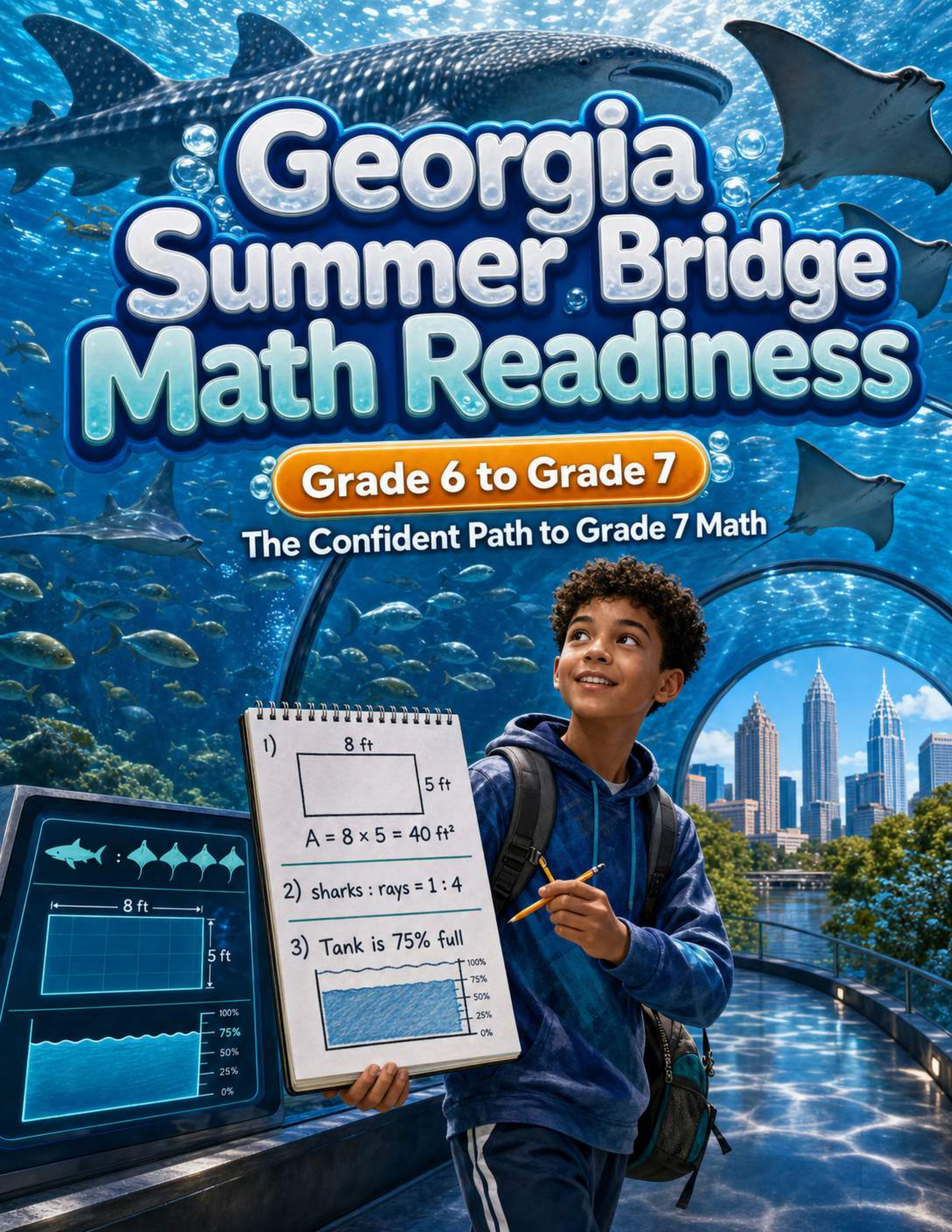
Georgia Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

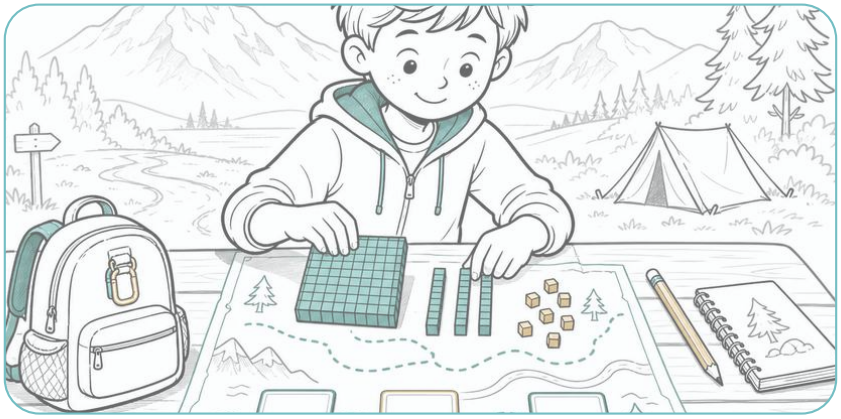
Summer Bridge

MATH SUMMER BRIDGE

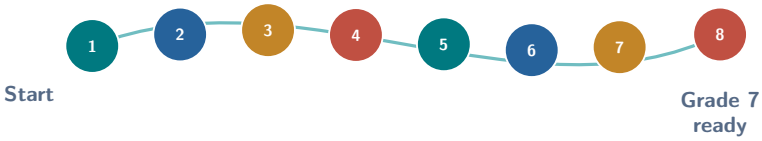
Georgia Milestones

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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Georgia 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

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Day 1

D1 D2 D3 D4 D5 ★ Fun Review 6.NR.4.1



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 snack mix has 4 cups of pretzels and 6 cups of crackers. Which statement is correct?

☐ A. The ratio of pretzels to crackers is 2:3.

☐ B. The ratio of pretzels to crackers is 4:10.

☐ C. The ratio of pretzels to the total mix is 2:3.

☐ D. The ratio of pretzels to the total mix is 6:10.

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. In a chess club, the ratio of beginners to advanced players is 5:2. Which statement is correct?

☐ A. There are 5 advanced players for every 2 beginners.

☐ B. For every 5 beginners, there are 2 advanced players.

☐ C. The total number of players is 7.

☐ D. There are exactly 5 beginners and 2 advanced players.

4. A shelf holds 18 fiction and 12 nonfiction books. Write the ratio of nonfiction to fiction in simplest form.

☐ **A.** 3 : 2

☐ **B.** 2 : 3

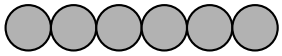
☐ **C.** 4 : 9

☐ **D.** 6 : 5

5. The diagram shows circles representing balloons. What is the ratio of striped balloons to solid balloons?

Striped





Solid

☐ A. 3 : 4

☐ C. 6 : 8

☐ B. 4 : 3

☐ D. 8 : 6

6. A fruit juice blend contains 5 parts orange juice and 3 parts apple juice. What is the ratio of orange juice to the total amount of juice?

☐ A. 3:5

☐ C. 5:8

☐ B. 5:3

☐ D. 8:5

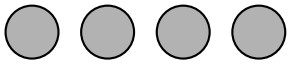
7. There are 6 red marbles and 9 blue marbles in a bag. Write the ratio of red marbles to blue marbles in simplest form.

Write your answer in this box.

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

White Marbles





Gray Marbles



Day 4

D1 D2 D3 D4 D5

★ Fun Review 6.NR.4.4, 6.NR.4.5

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 $\div$ 3 = \$0.80 per can; \$4.00 $\div$ 5 = \$0.80 per can. They cost the same per can.

1. Train A travels 360 miles in 8 hours. Train B travels 330 miles in 6 hours. Which train travels faster?

☐ A. Train A is faster.

☐ B. Train B is faster.

☐ C. Both trains travel at the same speed.

☐ D. Train A because it travels more miles total.

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

Distance	Time
24 miles	2 hours

☐ **A.** 10

☐ **B.** 26

☐ **C.** 14

☐ **D.** 12

3. A walker covers 2 miles in 30 minutes. A jogger covers 5 miles in 1 hour. Find each speed in miles per hour and tell who is faster.

Write your answer in this box.

4. 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.

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

Distance	Time
36 miles	4 hours

☐ **A.** 9

☐ **B.** 11

☐ **C.** 7

☐ **D.** 40

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6. 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.

7. Two juice companies are having a sale. Company X sells 24 ounces of juice for \$6. Company Y sells 20 ounces of juice for \$4. What is the unit price (in dollars per ounce) at the cheaper store? Round to the nearest cent.

Write your answer in this box.

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

Distance	Time
24 miles	2 hours

☐ **A.** 26

☐ **B.** 10

☐ **C.** 12

☐ **D.** 14

9. Store M sells 5 pounds of rice for \$12. Store N sells 8 pounds of rice for \$20. Which store has the better price per pound?

☐ A. Store M is cheaper.

☐ B. Store N is cheaper.

☐ C. Both stores have the same price per pound.

☐ D. Store M because it sells more pounds for less money.

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. 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.

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

Distance	Time
27 miles	3 hours

☐ **A.** 30

☐ **B.** 9

☐ **C.** 11

☐ **D.** 7

★ Challenge!

Think a little deeper

13. 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.

14. 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)



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

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