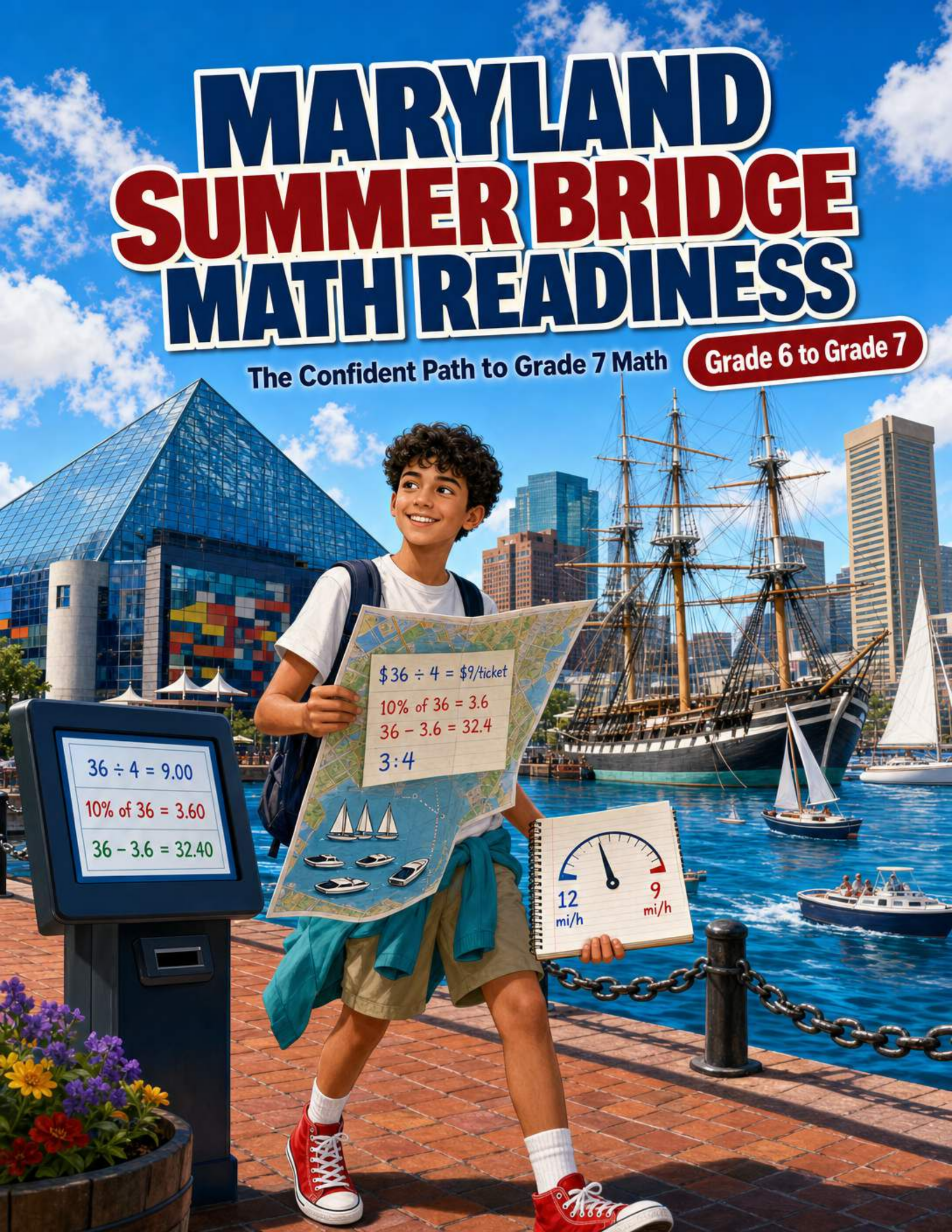

MARYLAND
SUMMER BRIDGE
MATH READINESS
The Confident Path to Grade 7 Math
Grade 6 to Grade 7
$36 ÷ 4 = $9/ticket
10% of 36 = 3.6
36 − 3.6 = 32.4
3:4
36 ÷ 4 = 9.00
10% of 36 = 3.60
36 − 3.6 = 32.40
12 mi/h
9 mi/h

GRADE 6 TO 7

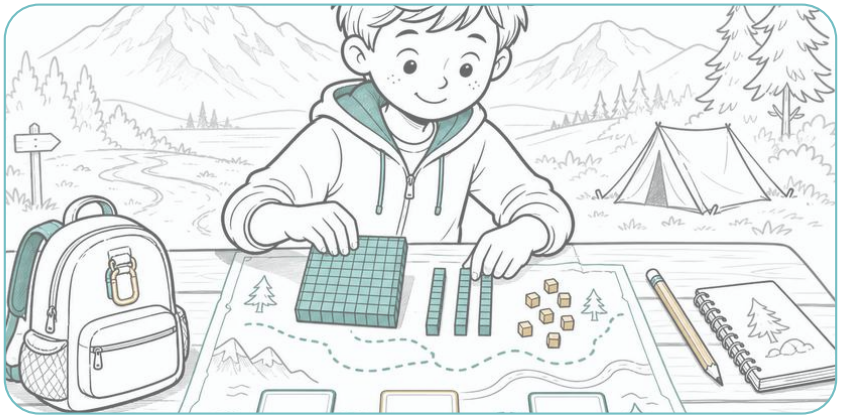
Summer Bridge

MATH SUMMER BRIDGE

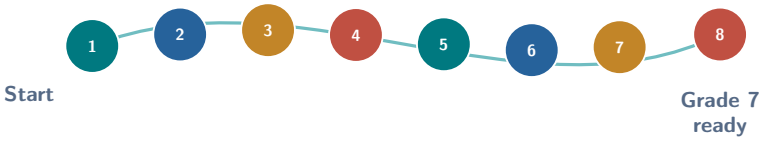
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Grade 6 to 7 Math

8-Week Summer Bridge



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



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Reza Nazari

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Maryland 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.1, 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.

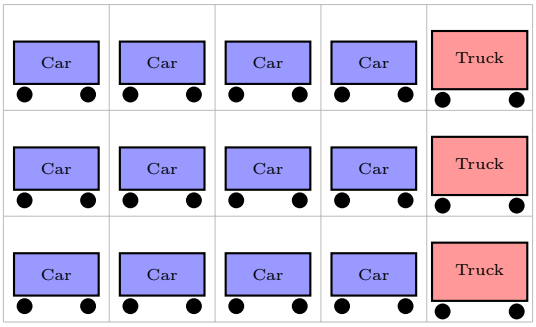
☐ **A.** 5 : 3

☐ **B.** 3 : 8

☐ **C.** 3 : 5

☐ **D.** 8 : 3

2. The 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

3. 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

Scan Me

4. 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

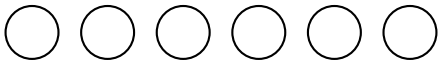
☐ B. 5:3

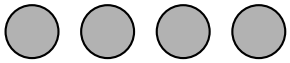
☐ C. 5:8

☐ D. 8:5

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. 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

7. 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.

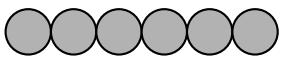
☐ C. The total number of players is 7.

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

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

Striped





Solid



Day 4

D1 D2 D3 D4 D5 ★ Fun Review 6.RP.A.1, 6.RP.A.2

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. To compare two rates fairly, the best first step is to:

☐ **A.** add the two rates

☐ **B.** round both numbers

☐ **C.** flip both ratios

☐ **D.** find each unit rate

2. 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.** 7

☐ **B.** 11

☐ **C.** 30

☐ **D.** 9

3. 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.

4. 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)

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

Distance	Time
30 miles	5 hours

☐ **A.** 4

☐ **B.** 6

☐ **C.** 35

☐ **D.** 8

Scan Me

6. A recipe mixes flour and sugar in the ratio 5:2. If there are 10 cups of flour, how many cups of sugar are needed?

☐ A. 2
☐ C. 7
☐ B. 4
☐ D. 20

7. A garden has tomato plants and pepper plants in the ratio 7:5. The garden contains 84 tomato plants. What is the total number of plants in the garden?

☐ A. 60
☐ C. 175
☐ B. 144
☐ D. 204

8. 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	6

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

9. A basketball team won and lost games in the ratio 5:2. The team lost 8 games. How many games did the team play in total?

Write your answer in this box.

10. The ratio of boys to girls in a class is 3:2. There are 12 boys. How many girls are in the class?

☐ A. 6
☐ C. 12
☐ B. 8
☐ D. 18

11. A recipe for 6 people uses 9 eggs. Find the eggs needed per person, then the number of eggs for 10 people.

Write your answer in this box.

12. 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
7	7

☐ **A.** 7 : 7
☐ **C.** 1 : 2
☐ **B.** 1
☐ **D.** 1 : 1