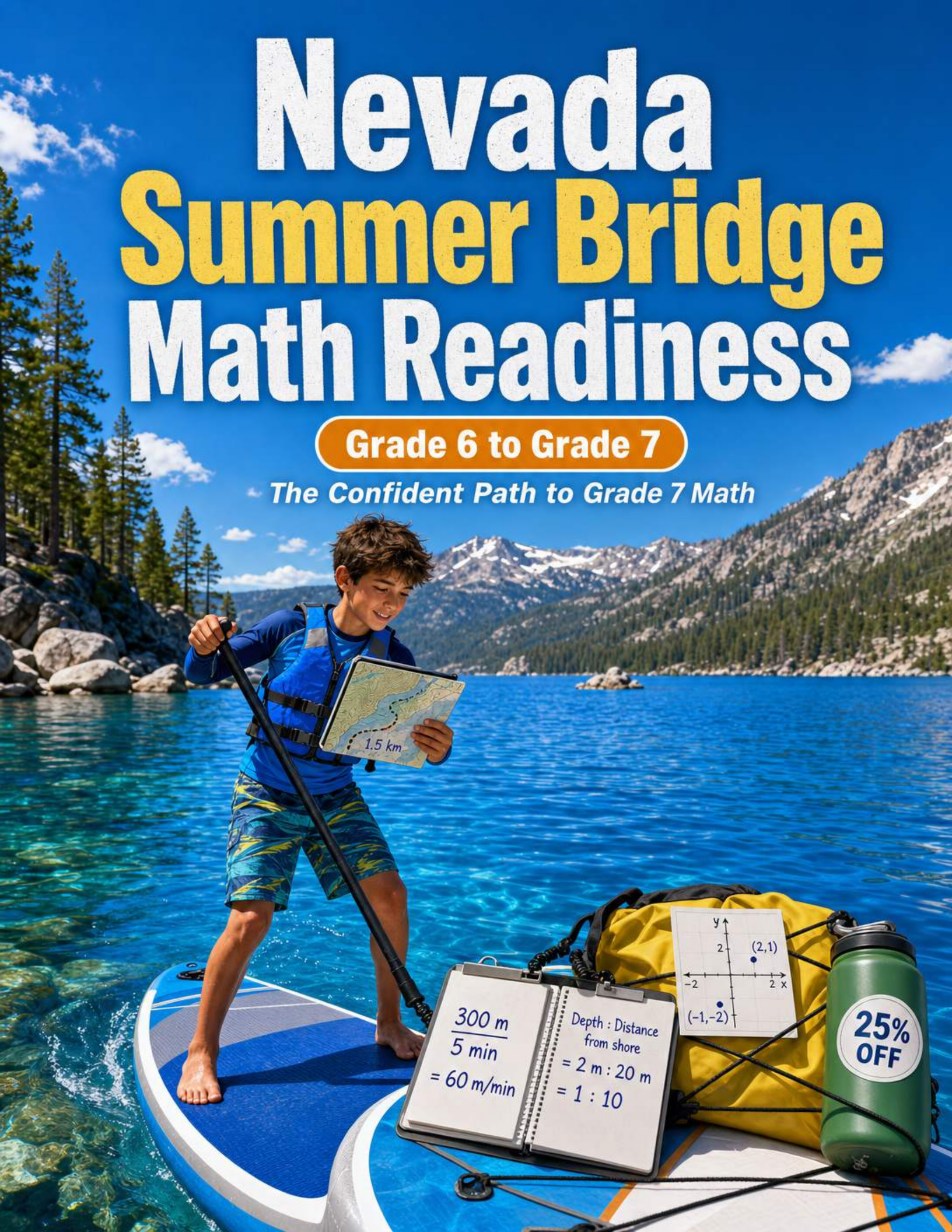
Nevada Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

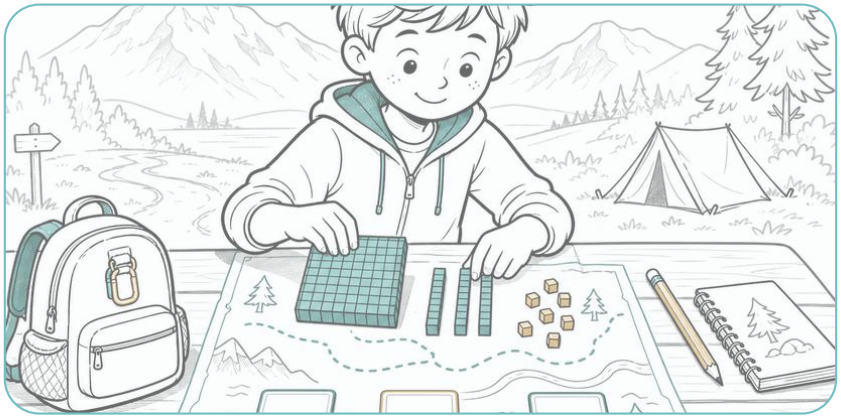
Summer Bridge

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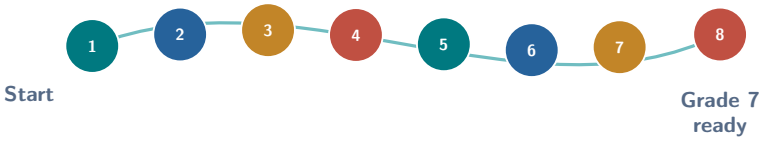
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Grade 6 to 7 Math

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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Nevada 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. 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?

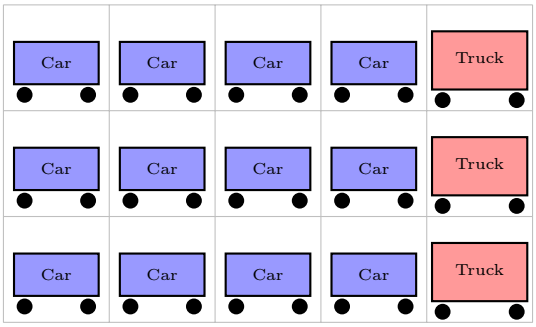
☐ **A.** 7

☐ **B.** 6

☐ **C.** 9

☐ **D.** 18

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

Scan Me

3. A trail mix contains 7 parts peanuts and 3 parts raisins. Write the ratio of peanuts to the total mix in simplest form.

Write your answer in this box.

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

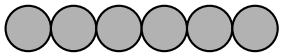
☐ C. 5:8

☐ D. 8:5

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

Striped





Solid

☐ A. 3 : 4

☐ B. 4 : 3

☐ C. 6 : 8

☐ D. 8 : 6

6. 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.

7. Write the ratio 9 : 12 in simplest form.

☐ **A.** 3 : 4

☐ **B.** 4 : 3

☐ **C.** 9 : 12

☐ **D.** 1 : 3

★ Challenge!

Think a little deeper

13. A car travels 120 miles in 3 hours. What is the speed in miles per hour?

☐ **A.** 60
☐ **C.** 30
☐ **B.** 40
☐ **D.** 360

14. A cyclist travels at a constant speed of 18 miles per hour. How many miles will the cyclist travel in 2.5 hours?

☐ A. 36 miles
☐ C. 45 miles
☐ B. 40 miles
☐ D. 50 miles



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



Day 4

D1 D2 D3 D4 D5

★ Fun Review A.3d, 6.RP.A.3b

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. 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.

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

Distance	Time
12 miles	2 hours

☐ **A.** 6

☐ **B.** 8

☐ **C.** 4

☐ **D.** 14

3. 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.

4. 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.

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

6. 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.

7. 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

8. 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.** 7
☐ **C.** 40
☐ **D.** 11

9. 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.

10. 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.

11. 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.