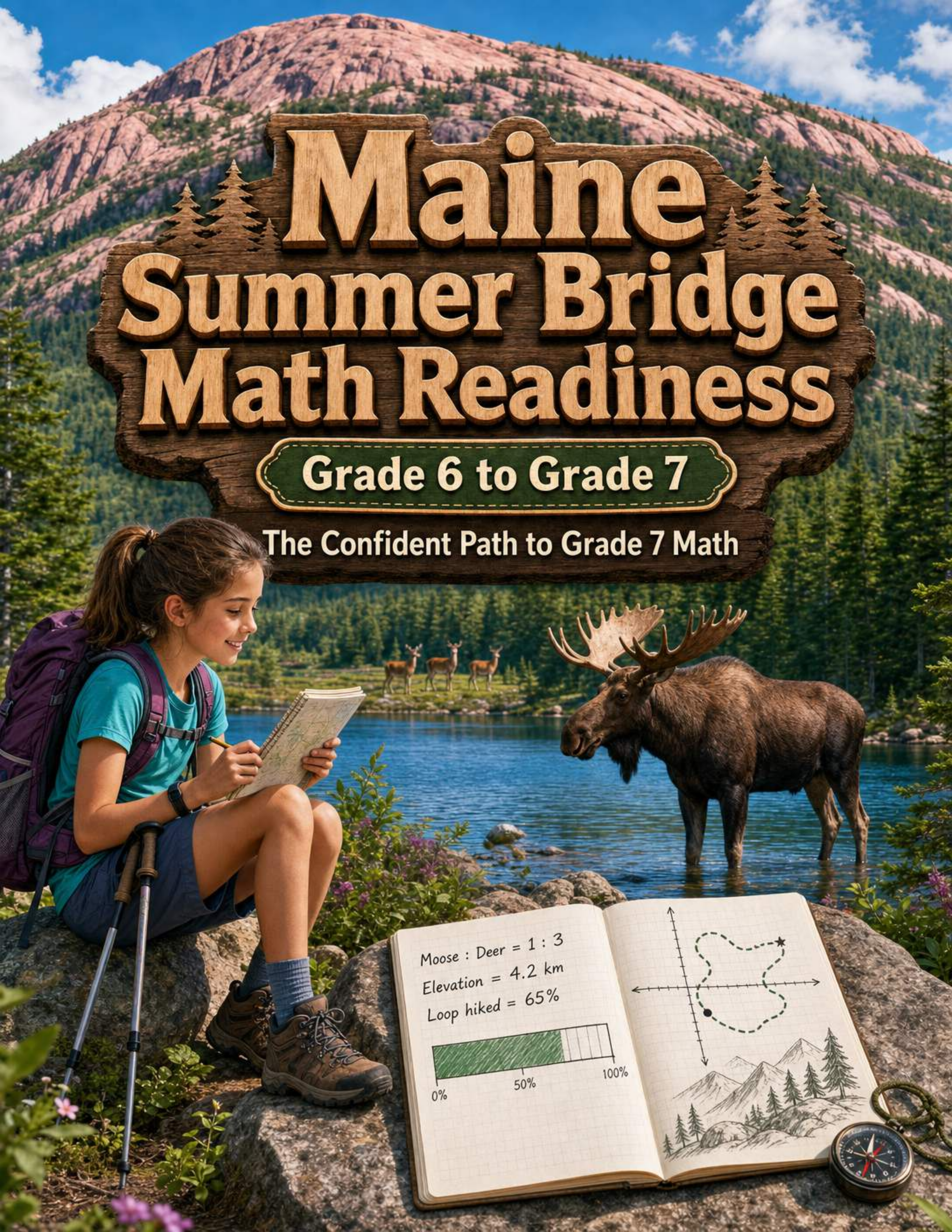
Maine Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE
6 TO 7

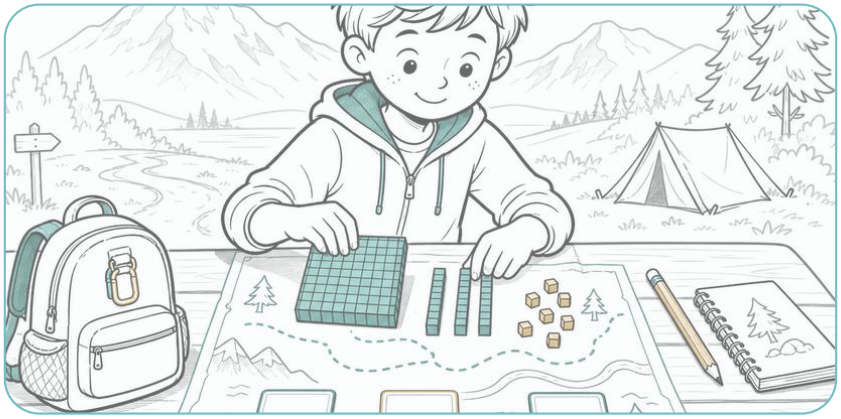
Summer Bridge

MATH
SUMMER
BRIDGE

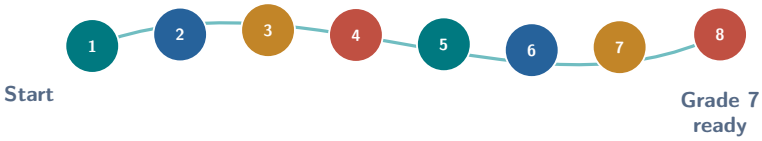
Maine Through Year Assessment

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

☐ **A.** 3 : 4

☐ **B.** 4 : 3

☐ **C.** 9 : 12

☐ **D.** 1 : 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. 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 trail mix contains 7 parts peanuts and 3 parts raisins. Write the ratio of peanuts to the total mix in simplest form.

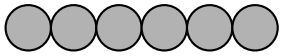
Write your answer in this box.

Scan Me

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. A smoothie shop mixes 18 strawberries with 27 blueberries to make a fruit blend. What is the ratio of strawberries to blueberries in simplest form?

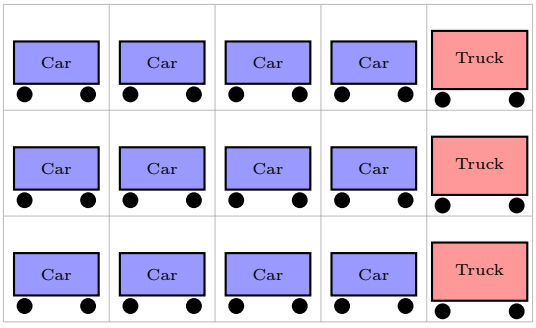
☐ A. 18:27

☐ C. 3:2

☐ B. 2:3

☐ D. 6:9

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



Parking Lot

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

Distance	Time
18 miles	3 hours

☐ **A.** 6
☐ **B.** 4
☐ **C.** 8
☐ **D.** 21

★ Challenge! — Think a little deeper

13. The cost to rent a van is \$50 per day plus \$0.20 per mile driven. If the total cost for one day was \$74, how many miles were driven?

☐ A. 105 miles
☐ B. 110 miles
☐ C. 115 miles
☐ D. 120 miles

14. A recipe calls for 750 milliliters of milk. If milk costs \$3.20 per liter, how much will the milk for this recipe cost?

Write your answer in this box.



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



Day 4

D1 D2 D3 D4 D5

★ Fun Review 6.RP.A.2, 6.RP.A.3c

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. 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.

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

Distance	Time
40 miles	5 hours

☐ **A.** 10

☐ **B.** 45

☐ **C.** 6

☐ **D.** 8

3. 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)

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
16 miles	2 hours

☐ **A.** 18

☐ **B.** 8

☐ **C.** 6

☐ **D.** 10

Scan Me

6. 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.

7. 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.

8. 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.** 18

☐ **B.** 10

☐ **C.** 8

☐ **D.** 6

9. 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.

10. 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.

11. 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)

12. 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.** 80

☐ **B.** 17

☐ **C.** 15

☐ **D.** 13