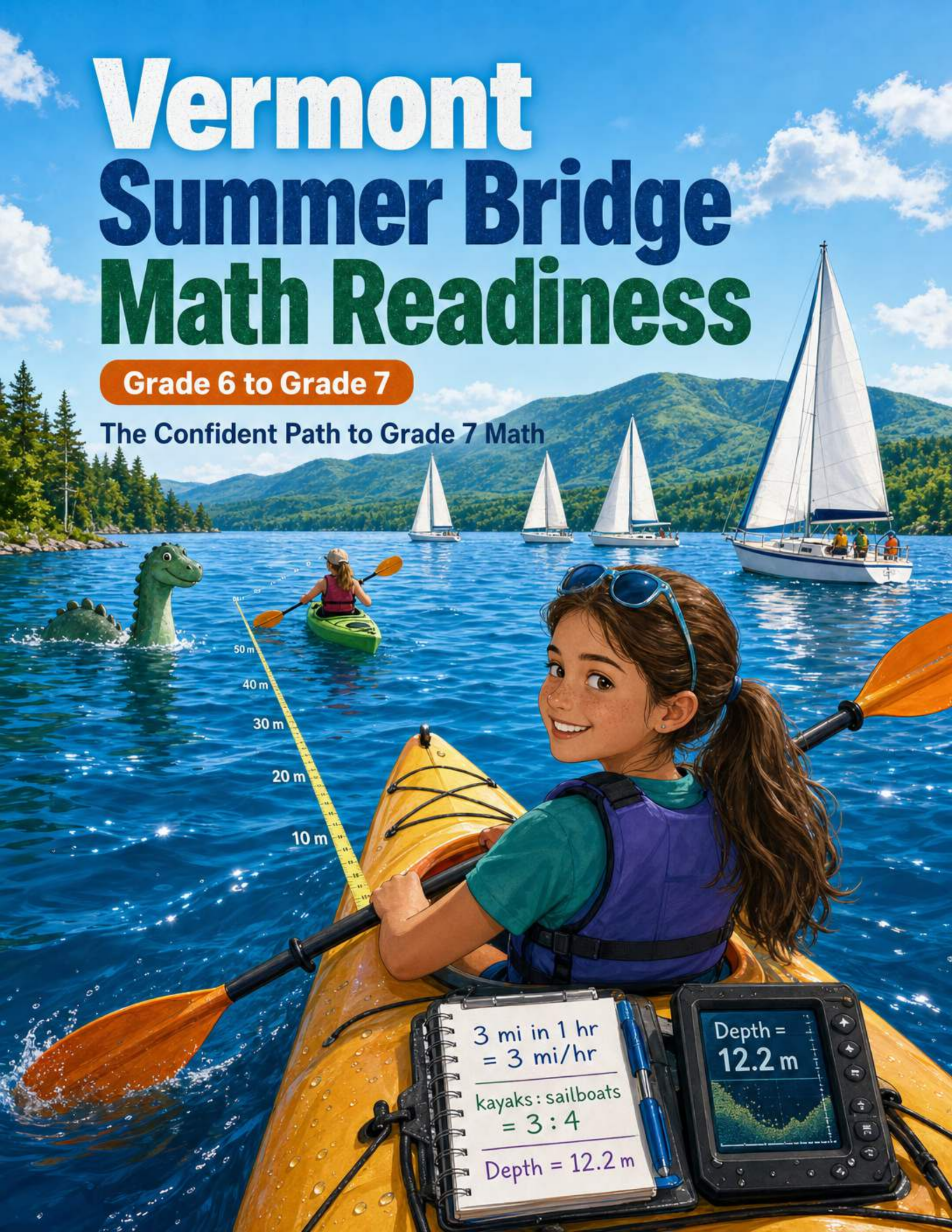
Vermont Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

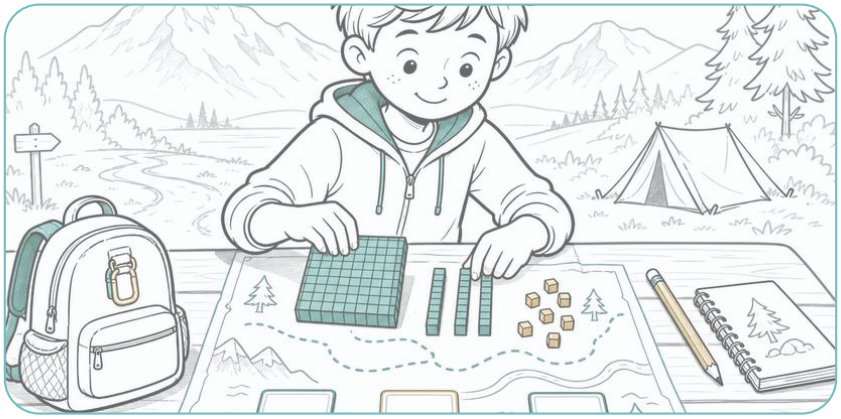
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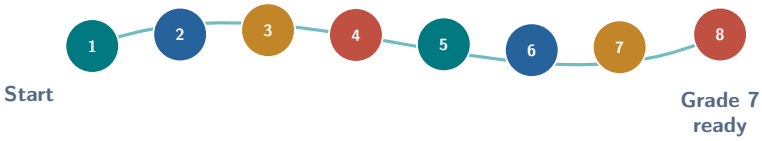
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Grade 6 to 7 Math

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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Vermont 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 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

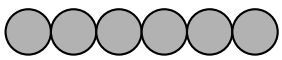
☐ B. 5:3

☐ D. 8:5

2. 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

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 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

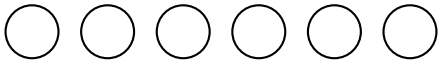
☐ C. 3:2

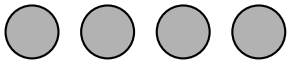
☐ B. 2:3

☐ D. 6:9

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

White Marbles





Gray Marbles

☐ A. 2 : 3

☐ C. 4 : 6

☐ B. 3 : 2

☐ 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

☐ **C.** 4 : 6

☐ **B.** 3 : 2

☐ **D.** 2 : 5

7. 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.

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

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

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

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	4

★ 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

☐ C. 115 miles

☐ B. 110 miles

☐ D. 120 miles

14. 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

☐ C. \$4.20

☐ B. \$4.00

☐ D. \$4.40



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. 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
60 miles	4 hours

☐ **A.** 17

☐ **B.** 15

☐ **C.** 64

☐ **D.** 13

3. 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.

4. 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

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

Distance	Time
32 miles	4 hours

☐ **A.** 8

☐ **B.** 6

☐ **C.** 36

☐ **D.** 10

Scan Me

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. Team A scored 48 points in 4 games. Team B scored 42 points in 3 games. Which team scores more per game?

☐ **A.** Team A (12)

☐ **B.** They tie

☐ **C.** Team A (14)

☐ **D.** Team B (14)

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

Distance	Time
45 miles	5 hours

☐ **A.** 9

☐ **B.** 50

☐ **C.** 11

☐ **D.** 7

9. 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.

10. 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)

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
18 miles	2 hours

☐ **A.** 7

☐ **B.** 9

☐ **C.** 20

☐ **D.** 11