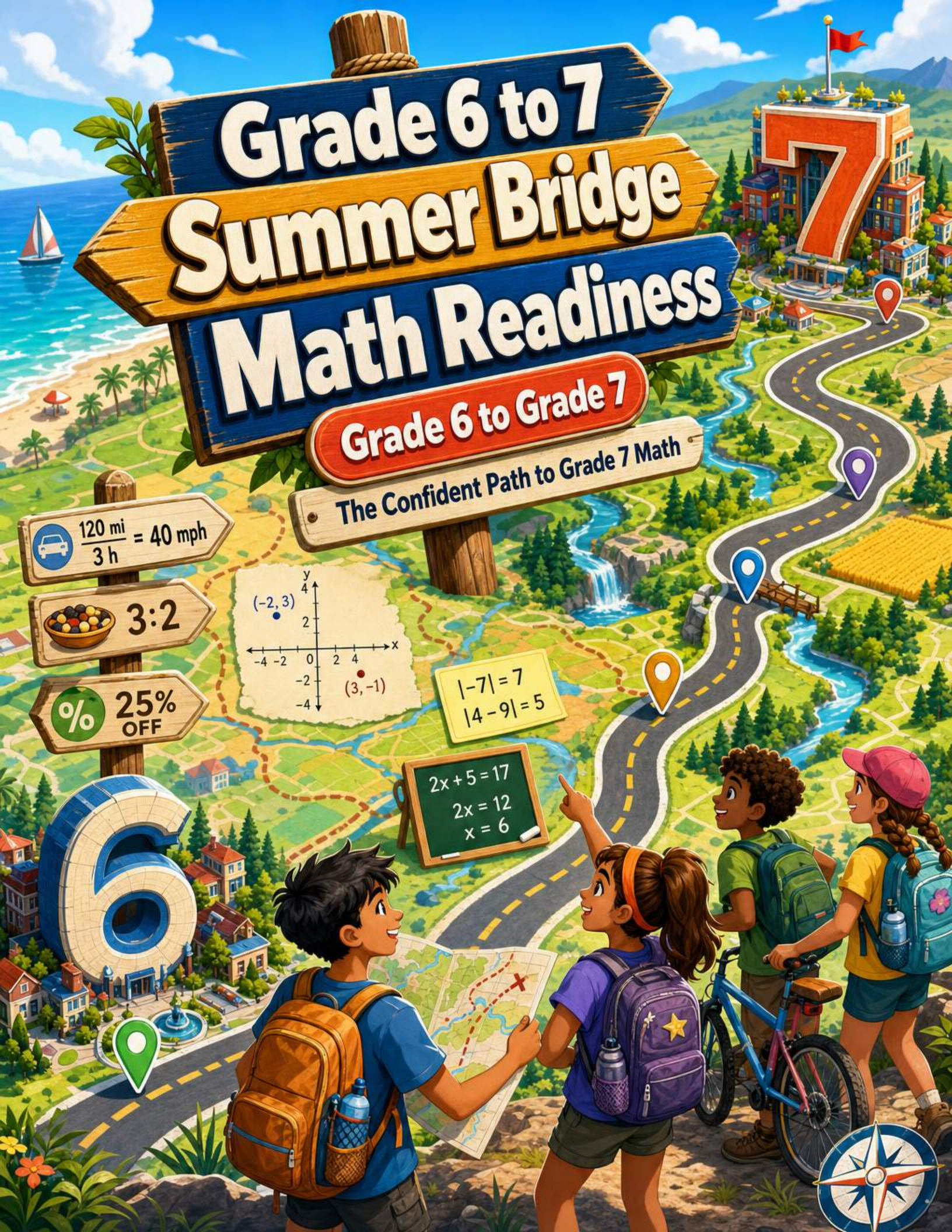

Grade 6 to 7
Summer Bridge
Math Readiness
Grade 6 to Grade 7
The Confident Path to Grade 7 Math
120 mi / 3 h = 40 mph
3:2
25% OFF
(−2, 3)
(3, −1)
|−7| = 7
|4 − 9| = 5
2x + 5 = 17
2x = 12
x = 6

GRADE
6 TO 7

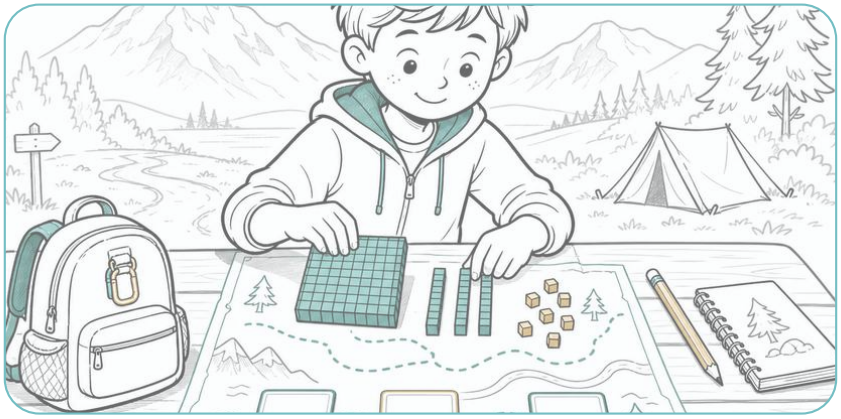
Summer Bridge

MATH
SUMMER
BRIDGE

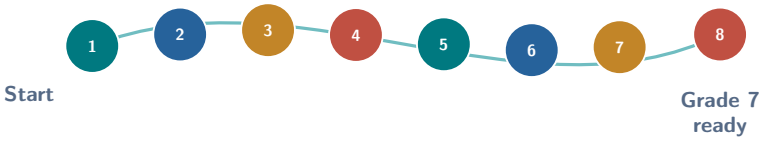
Grade 6 Math

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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Grade 6 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.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.

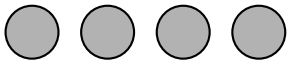
1. There are 6 red marbles and 9 blue marbles in a bag. Write the ratio of red marbles to blue marbles in simplest form.

Write your answer in this box.

2. 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

Scan Me

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

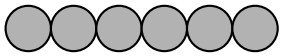
4. A bracelet has 4 red beads and 6 white beads. What is the ratio of red beads to the total number of beads?

☐ A. 4:6
☐ B. 2:3
☐ C. 2:5
☐ D. 5:2

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. 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

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

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

Distance	**Time**
36 miles	3 hours

☐ **A.** 39
☐ **B.** 12
☐ **C.** 10
☐ **D.** 14

★ Challenge! Think a little deeper

13. A water tank is being drained at a rate of 600 gallons per hour. If the tank holds 43,200 gallons of water when full, how many days will it take to empty the tank completely?

☐ A. 2.5 days
☐ B. 2.8 days
☐ C. 3.0 days
☐ D. 3.2 days

14. Six apples cost $3.00. What is the cost per apple?

☐ **A.** $2.00
☐ **B.** $1.50
☐ **C.** $0.50
☐ **D.** $18.00



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



Day 4

D1 D2 D3 D4 D5

★ Fun Review

6.RP.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. 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.

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

Distance	Time
24 miles	3 hours

☐ **A.** 27
☐ **B.** 6
☐ **C.** 8
☐ **D.** 10

3. 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)

4. 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.

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.** 35
☐ **B.** 6
☐ **C.** 8
☐ **D.** 4

6. 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.

7. 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.

8. 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.** 11
☐ **B.** 7
☐ **C.** 9
☐ **D.** 30

9. 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)

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. 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