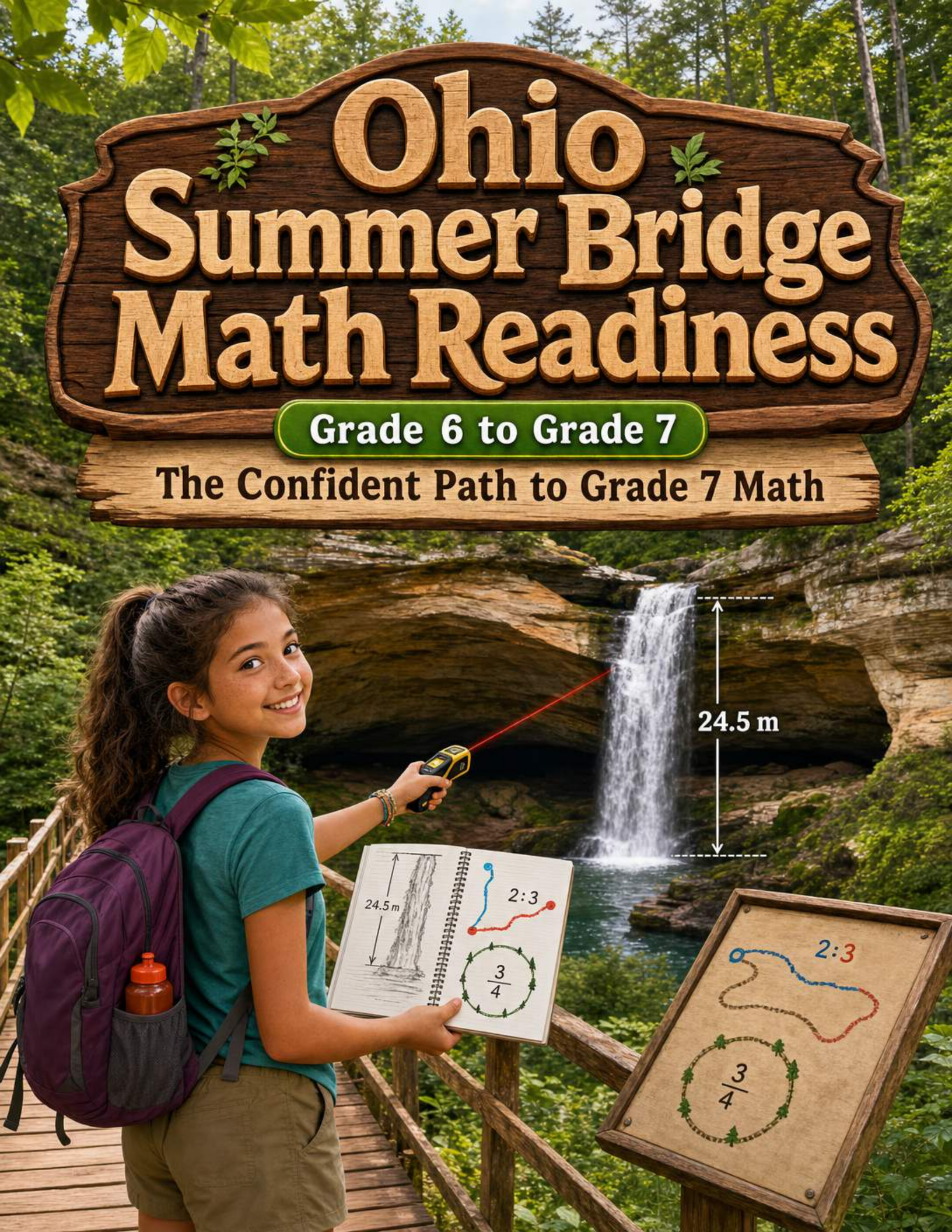
Ohio Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

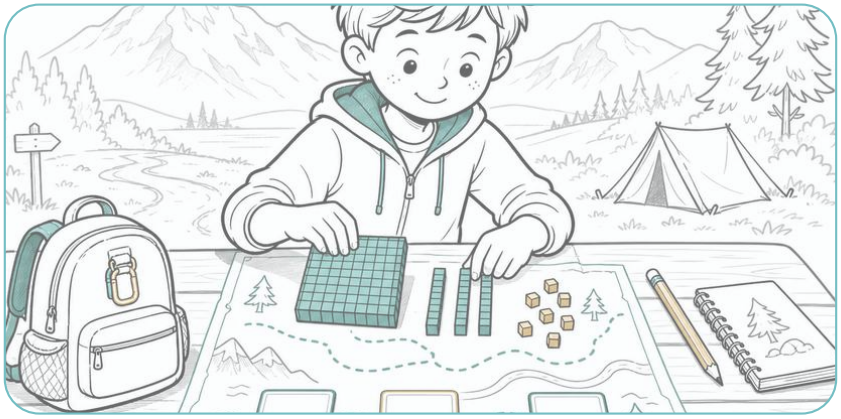
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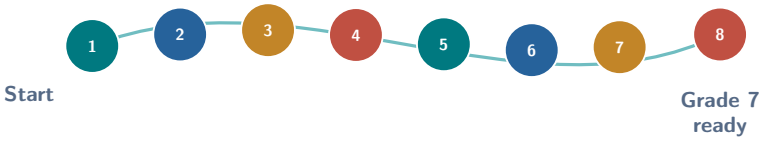
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Grade 6 to 7 Math

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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Ohio 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, 6.RP.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

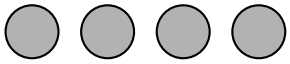
☐ **C.** 3 : 5

☐ **D.** 8 : 3

2. The 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

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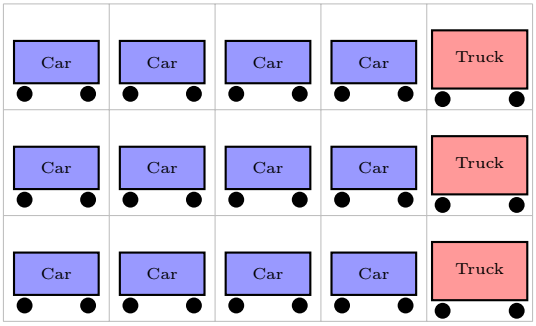
3. There are 6 red marbles and 9 blue marbles in a bag. Write the ratio of red marbles to blue marbles in simplest form.

Write your answer in this box.

4. 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

5. 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

6. 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

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.

★ Challenge! Think a little deeper

13. 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.

14. A bakery sells 8 bagels for \$10.00. Find the price of one bagel, then use it to find the cost of 20 bagels.

Write your answer in this box.



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

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Day 4

D1 D2 D3 D4 D5

★ Fun Review 6.RP.3d, 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. 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
75 miles	5 hours

☐ **A.** 17

☐ **B.** 80

☐ **C.** 13

☐ **D.** 15

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. 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
45 miles	5 hours

☐ **A.** 11

☐ **B.** 7

☐ **C.** 50

☐ **D.** 9

Scan Me

6. 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.

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
48 miles	4 hours

☐ **A.** 14

☐ **B.** 12

☐ **C.** 10

☐ **D.** 52

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. 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.

11. 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.

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.** 17

☐ **B.** 80

☐ **C.** 15

☐ **D.** 13