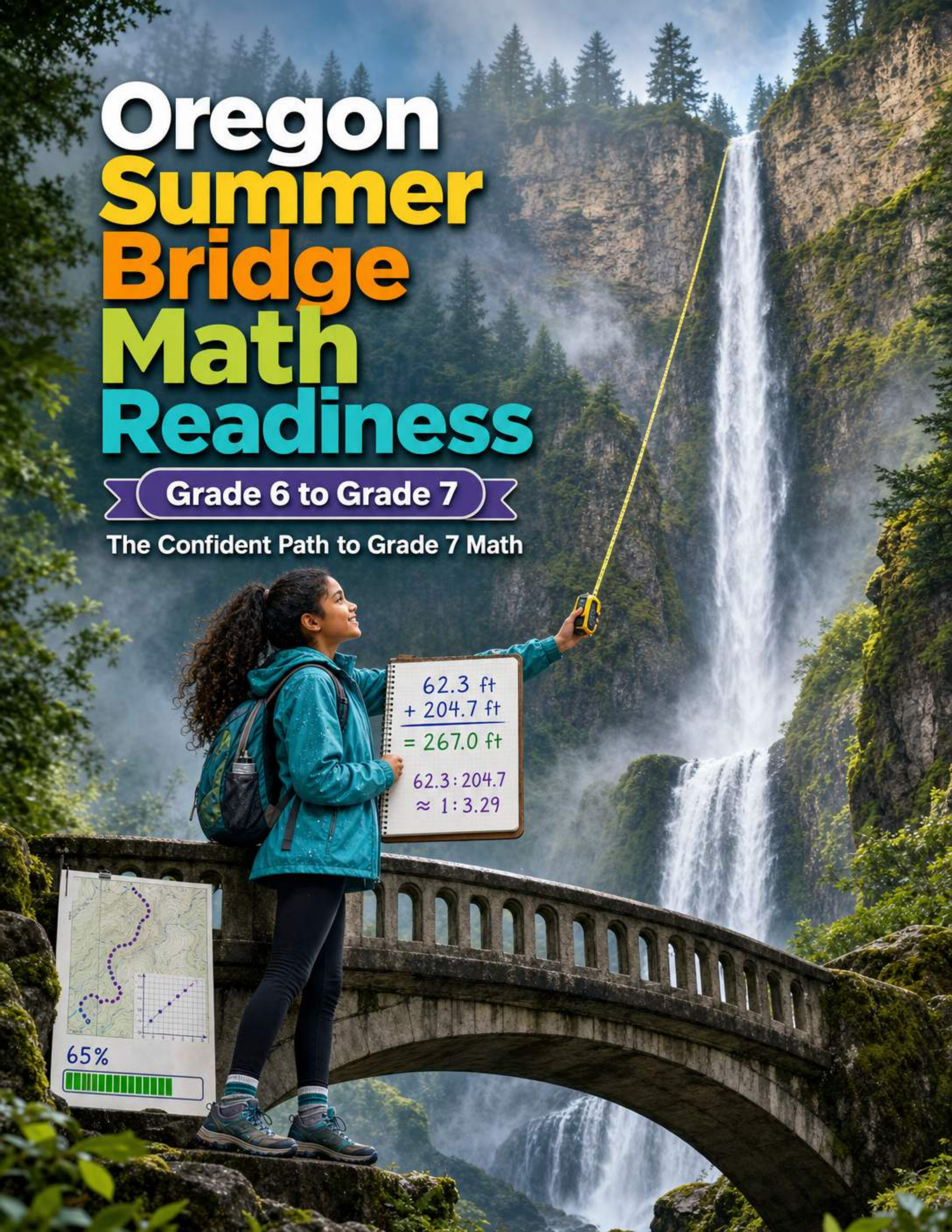

Oregon
Summer
Bridge
Math
Readiness
Grade 6 to Grade 7
The Confident Path to Grade 7 Math
62.3 ft
+ 204.7 ft
= 267.0 ft
62.3 : 204.7
≈ 1 : 3.29
65%

GRADE 6 TO 7

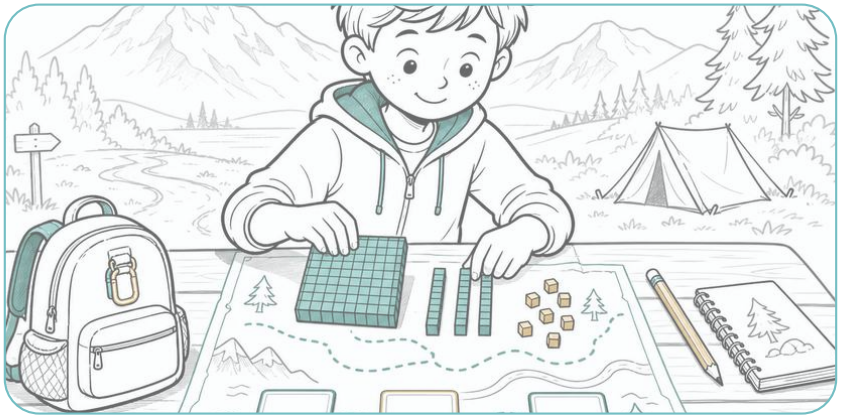
Summer Bridge

MATH SUMMER BRIDGE

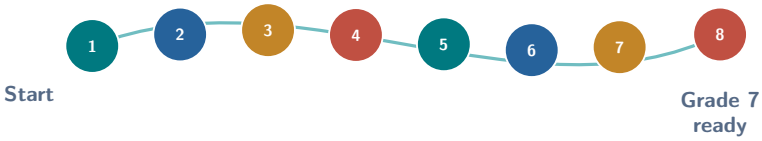
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40 focused practice days • weekly activities + games • answer key



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Reza Nazari

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Oregon 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



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 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. A pizza has 3 cheese slices and 5 veggie slices. Write the ratio of cheese to veggie slices.

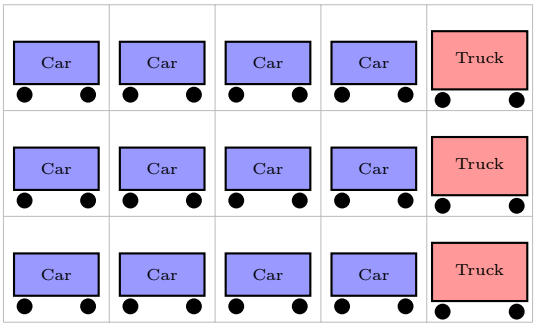
☐ **A.** 5 : 3
☐ **B.** 3 : 8
☐ **C.** 3 : 5
☐ **D.** 8 : 3

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

☐ **A.** 3 : 4
☐ **B.** 4 : 3
☐ **C.** 9 : 12
☐ **D.** 1 : 3

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



Parking Lot

☐ A. 3 : 1

☐ C. 5 : 1

☐ B. 4 : 1

☐ D. 1 : 4

6. A parking lot has 14 cars and 6 trucks. Write the ratio of trucks to *all* vehicles in simplest form.

☐ **A.** 6 : 14

☐ **C.** 7 : 10

☐ **B.** 3 : 10

☐ **D.** 10 : 3

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.

☐ C. The total number of players is 7.

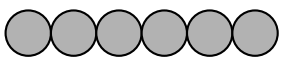
☐ B. For every 5 beginners, there are 2 advanced players.

☐ D. There are exactly 5 beginners and 2 advanced players.

8. 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



Day 4

D1 D2 D3 D4 D5

★ Fun Review 6.RP.A.3, 6.RP.A.2

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 $\div$ 3 = \$0.80 per can; \$4.00 $\div$ 5 = \$0.80 per can. They cost the same per can.

1. 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.

2. 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.** 21

☐ **B.** 4

☐ **C.** 6

☐ **D.** 8

3. 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.

4. 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.

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.** 10

☐ **C.** 6

☐ **D.** 36

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6. 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.

7. 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)
☐ **C.** Store X (\$0.75)
☐ **B.** Same price
☐ **D.** Store Y (\$0.75)

8. 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
☐ **C.** 15
☐ **B.** 64
☐ **D.** 13

9. 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.
☐ C. Both trains travel at the same speed.
☐ B. Train B is faster.
☐ D. Train A because it travels more miles total.

10. To compare two rates fairly, the best first step is to:

☐ **A.** add the two rates
☐ **C.** flip both ratios
☐ **B.** round both numbers
☐ **D.** find each unit rate

11. 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.
☐ C. Both stores have the same price per pound.
☐ B. Store N is cheaper.
☐ D. Store M because it sells more pounds for less money.

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

Distance	**Time**
45 miles	3 hours

☐ **A.** 48
☐ **C.** 15
☐ **B.** 13
☐ **D.** 17

★ Challenge!

Think a little deeper

13. 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)

14. 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.



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

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