Hawaii Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE
6 TO 7

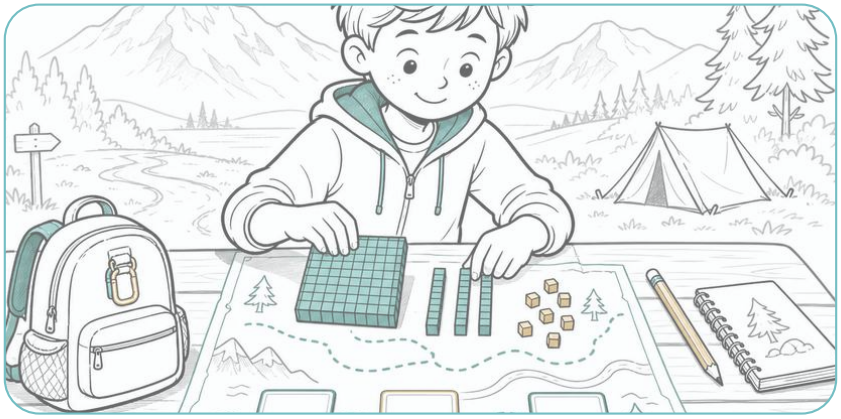
Summer Bridge

MATH
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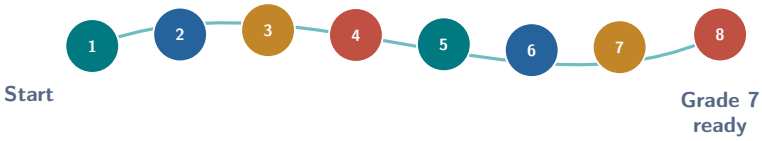
Hawaii Smarter Balanced

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.

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Effortless Math Education

Independent educational publishing

Published by Effortless Math Education

EffortlessMath.com

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Hawaii 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

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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 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

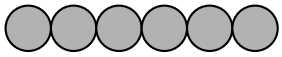
☐ B. 2:3

☐ D. 6:9

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. 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

☐ **C.** 9

☐ **B.** 6

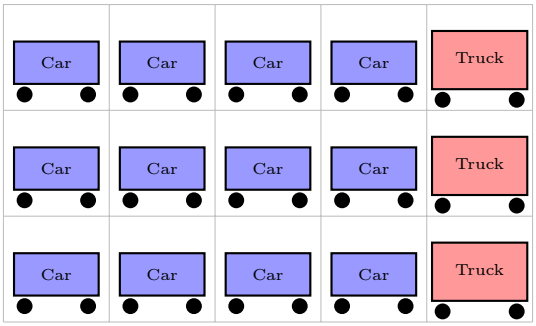
☐ **D.** 18

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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.

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. Write the ratio 9 : 12 in simplest form.

☐ **A.** 3 : 4

☐ **C.** 9 : 12

☐ **B.** 4 : 3

☐ **D.** 1 : 3

7. 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

☐ C. 2:5

☐ B. 2:3

☐ D. 5:2

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

☐ **A.** 1 : 2

☐ **C.** 1

☐ **B.** 4 : 4

☐ **D.** 1 : 1

☐ **A.** 14
☐ **B.** 10
☐ **C.** 12
☐ **D.** 26

★ Challenge! Think a little deeper

13. A printer prints 24 pages in 4 minutes. How many pages does it print per minute?

☐ **A.** 8
☐ **B.** 20
☐ **C.** 96
☐ **D.** 6

14. The sixth-grade class has $840 for a science museum trip. The bus costs $180, and admission is $12 per student. If there are 35 students, how much money will remain after paying for the bus and all admission tickets?

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

1. 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

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

Distance	Time
60 miles	5 hours

☐ **A.** 65

☐ **B.** 10

☐ **C.** 14

☐ **D.** 12

3. 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.

4. 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)

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.** 7

☐ **B.** 50

☐ **C.** 9

☐ **D.** 11

Scan Me

6. 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.

7. 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.

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

Distance	Time
24 miles	2 hours

☐ **A.** 26

☐ **B.** 12

☐ **C.** 10

☐ **D.** 14

9. 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.

10. 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.

11. 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)

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.** 13

☐ **B.** 80

☐ **C.** 17

☐ **D.** 15