Washington, D.C. Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE
6 TO 7

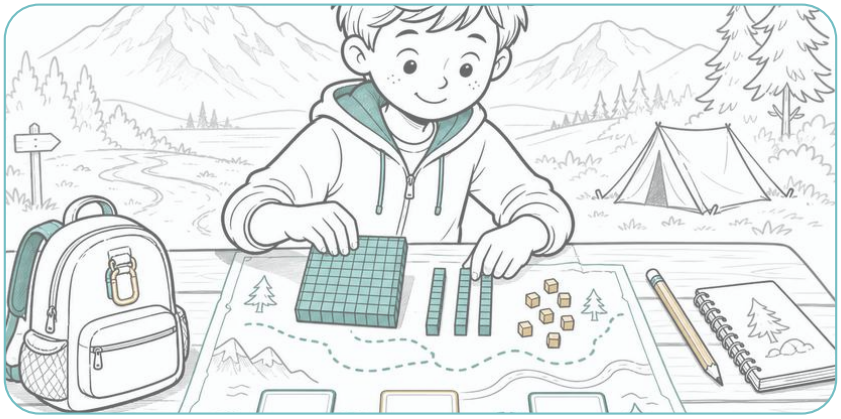
Summer Bridge

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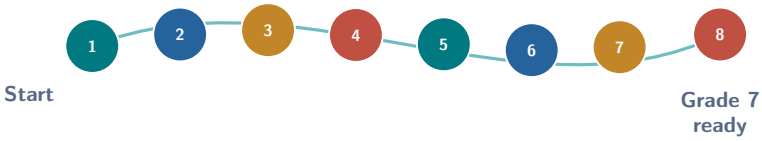
District of Columbia DC CAPE

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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District of Columbia 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. Write the ratio 9 : 12 in simplest form.

☐ **A.** 3 : 4

☐ **B.** 4 : 3

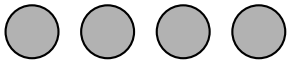
☐ **C.** 9 : 12

☐ **D.** 1 : 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

3. 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.

Scan Me

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

☐ C. 2:5

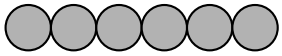
☐ B. 2:3

☐ 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

☐ C. 6 : 8

☐ B. 4 : 3

☐ D. 8 : 6

6. 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

7. A shelf holds 18 fiction and 12 nonfiction books. Write the ratio of nonfiction to fiction in simplest form.

☐ **A.** 3 : 2

☐ **C.** 4 : 9

☐ **B.** 2 : 3

☐ **D.** 6 : 5

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



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

1. 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.

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

Distance	Time
30 miles	2 hours

☐ **A.** 13

☐ **B.** 17

☐ **C.** 15

☐ **D.** 32

3. 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.

4. 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.

5. 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.** 10
☐ **B.** 12
☐ **C.** 14
☐ **D.** 52

6. 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)

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
45 miles	3 hours

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

9. 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.

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. 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
32 miles	4 hours

☐ **A.** 6
☐ **B.** 36
☐ **C.** 10
☐ **D.** 8

★ Challenge! Think a little deeper

13. 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

14. 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.

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