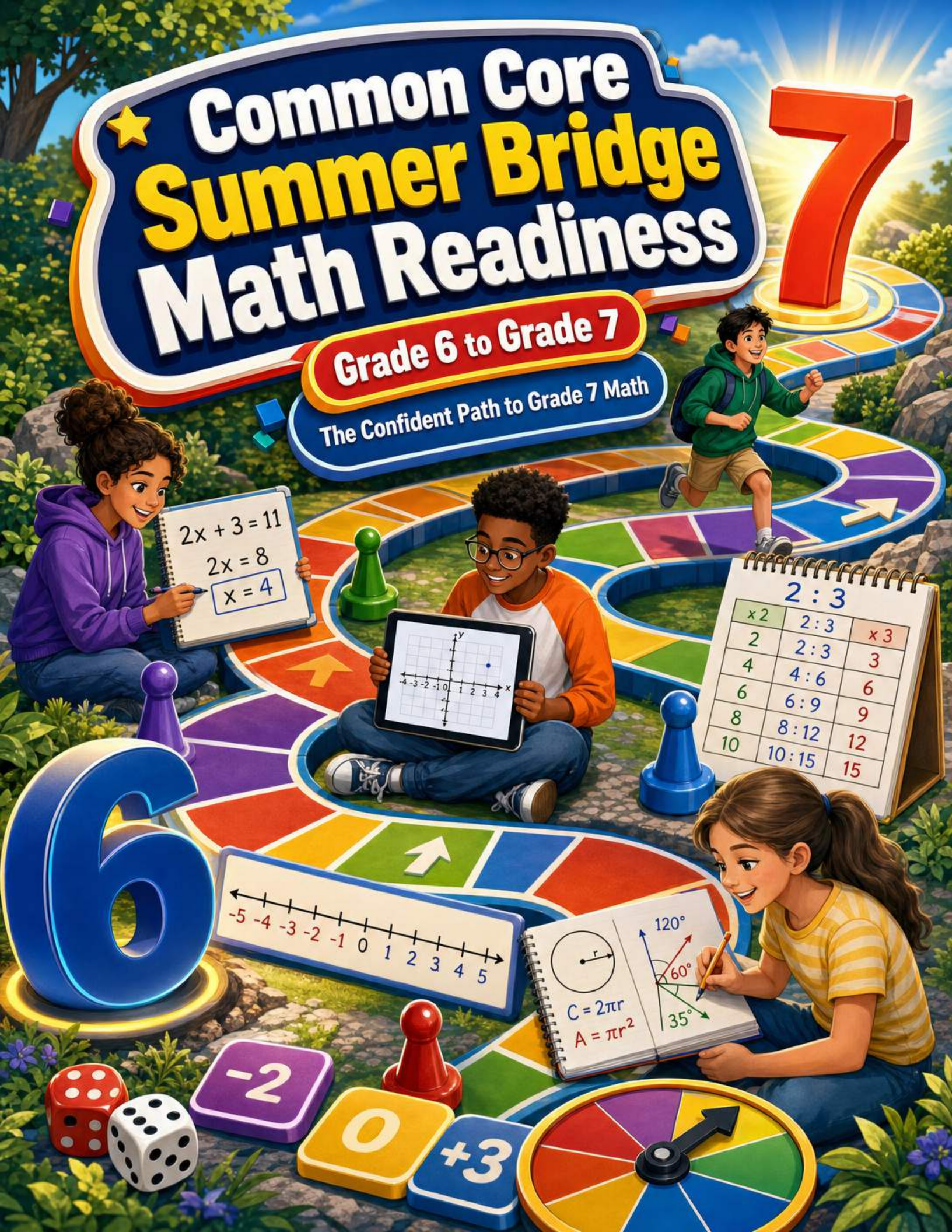

Common Core
Summer Bridge
Math Readiness
7
Grade 6 to Grade 7
The Confident Path to Grade 7 Math
2x + 3 = 11
2x = 8
x = 4
2 : 3
x 2
2 : 3
x 3
2
2 : 3
3
4
4 : 6
6
6
6 : 9
9
8
8 : 12
12
10
10 : 15
15
6
-5 -4 -3 -2 -1 0 1 2 3 4 5
C = 2πr
A = πr²
120°
60°
35°
-2
0
+3

GRADE
6 TO 7

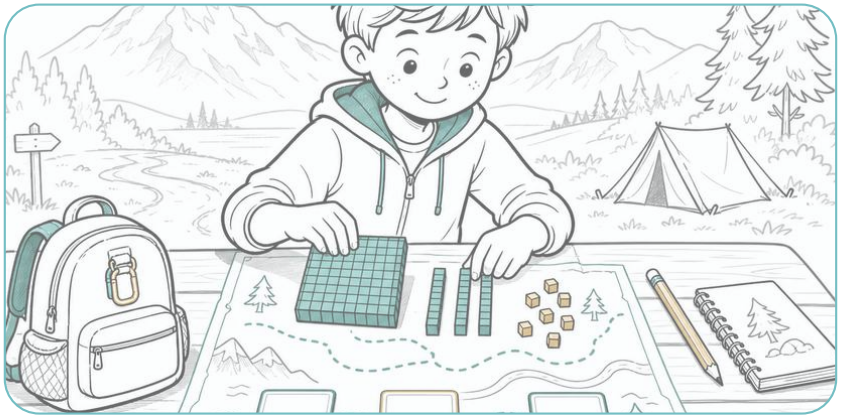
Summer Bridge

MATH
SUMMER
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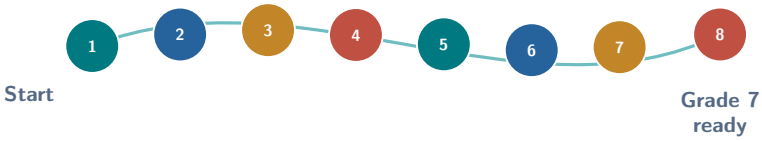
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Grade 6 to 7 Math

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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Common Core 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 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 trail mix contains 7 parts peanuts and 3 parts raisins. Write the ratio of peanuts to the total mix in simplest form.

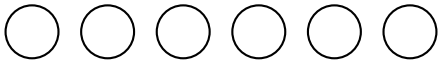
Write your answer in this box.

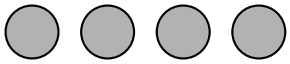
4. In a club, the ratio of left-handed to right-handed students is 2 : 7. If there are 27 students in all, how many are left-handed?

☐ **A.** 7
☐ **C.** 9
☐ **B.** 6
☐ **D.** 18

5. The diagram shows circles representing marbles. What is the ratio of white marbles to gray marbles?

White Marbles





Gray Marbles

☐ A. 2 : 3
☐ C. 4 : 6
☐ B. 3 : 2
☐ D. 6 : 4

6. 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.

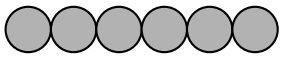
7. A bracelet has 4 red beads and 6 white beads. What is the ratio of red beads to the total number of beads?

☐ A. 4:6
☐ C. 2:5
☐ B. 2:3
☐ D. 5:2

8. The diagram shows circles representing balloons. What is the ratio of striped balloons to solid balloons?

Striped





Solid

Scan Me



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	4 hours

☐ **A.** 4
☐ **C.** 6
☐ **B.** 28
☐ **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.
☐ C. Both bakeries bake at the same speed.
☐ B. Bakery Q bakes faster.
☐ D. Bakery Q because 28 is more than 18.

4. 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)
☐ **C.** Team A (14)
☐ **B.** They tie
☐ **D.** Team B (14)

5. 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.** 80
☐ **B.** 13
☐ **C.** 17
☐ **D.** 15

6. 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.

7. 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)

8. 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.** 6
☐ **B.** 21
☐ **C.** 8
☐ **D.** 4

9. 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

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. 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.

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

Distance	Time
24 miles	4 hours

☐ **A.** 28
☐ **B.** 4
☐ **C.** 8
☐ **D.** 6

★ Challenge! Think a little deeper

13. 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.

14. 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)



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