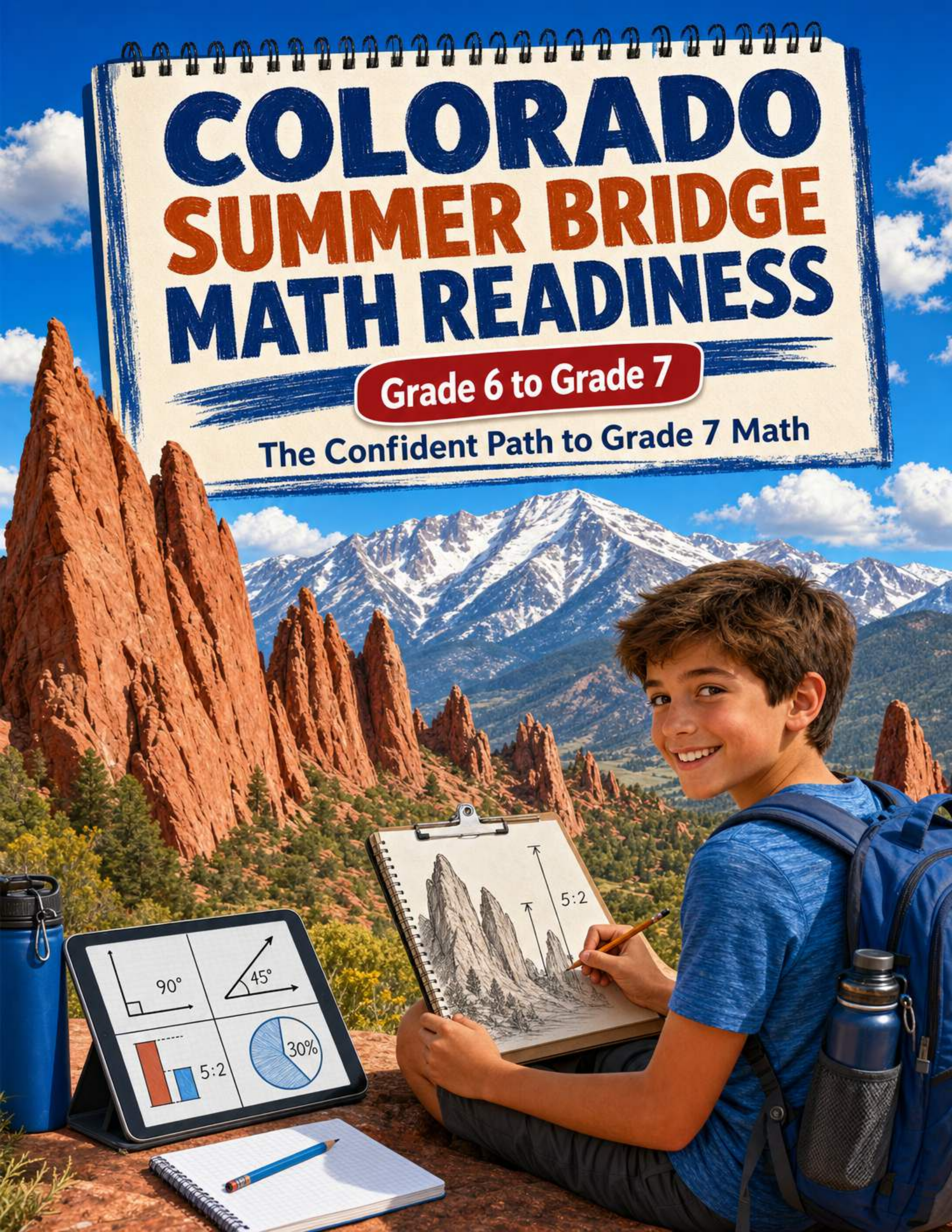
# COLORADO SUMMER BRIDGE MATH READINESS

## Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

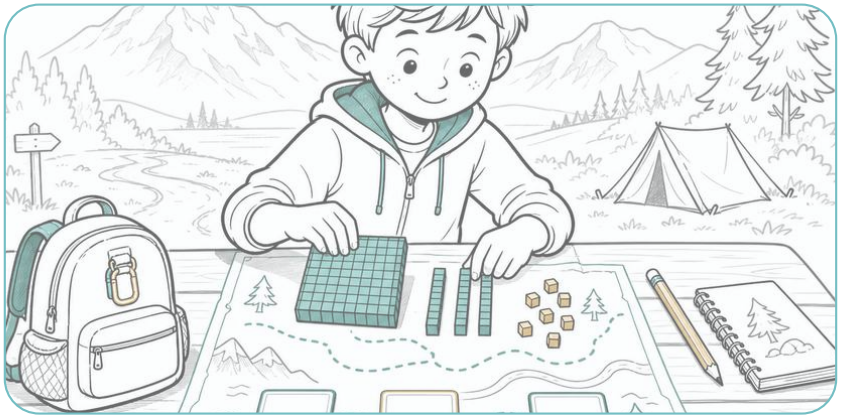
Summer Bridge

MATH SUMMER BRIDGE

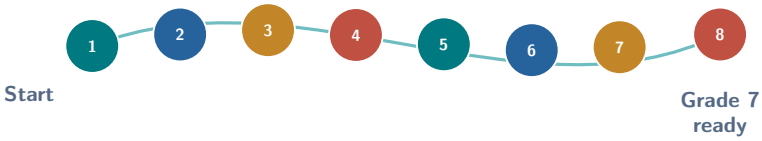
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# Grade 6 to 7 Math

## 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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**Colorado 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, 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

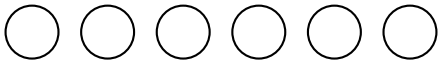
☐ C. 3:2

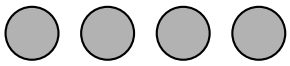
☐ B. 2:3

☐ D. 6:9

**2.** The diagram shows circles representing 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

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**3.** A snack mix has 4 cups of pretzels and 6 cups of crackers. Which statement is correct?

☐ A. The ratio of pretzels to crackers is 2:3.

☐ C. The ratio of pretzels to the total mix is 2:3.

☐ B. The ratio of pretzels to crackers is 4:10.

☐ D. The ratio of pretzels to the total mix is 6:10.

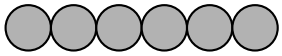
**4.** There are 6 red marbles and 9 blue marbles in a bag. Write the ratio of red marbles to blue marbles in simplest form.

**Write your answer in this box.**

**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.** 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. $10 per hour

☐ B. $11 per hour

☐ C. $12 per hour

☐ D. $13 per hour

## ★ 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 6.RP.A.1, 6.NS.A.1

# 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 |
|---|---|
| 36 miles | 4 hours |

☐ **A.** 40

☐ **B.** 9

☐ **C.** 11

☐ **D.** 7

**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.** 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.

**5.** 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.** 15

☐ **B.** 17

☐ **C.** 13

☐ **D.** 64

Scan Me

**6.** 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.

**7.** 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.**

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

| Distance | Time |
|---|---|
| 16 miles | 2 hours |

☐ **A.** 8

☐ **B.** 10

☐ **C.** 6

☐ **D.** 18

**9.** 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.**

**10.** 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.

**11.** 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)

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

| Distance | Time |
|---|---|
| 16 miles | 2 hours |

☐ **A.** 8

☐ **B.** 18

☐ **C.** 6

☐ **D.** 10