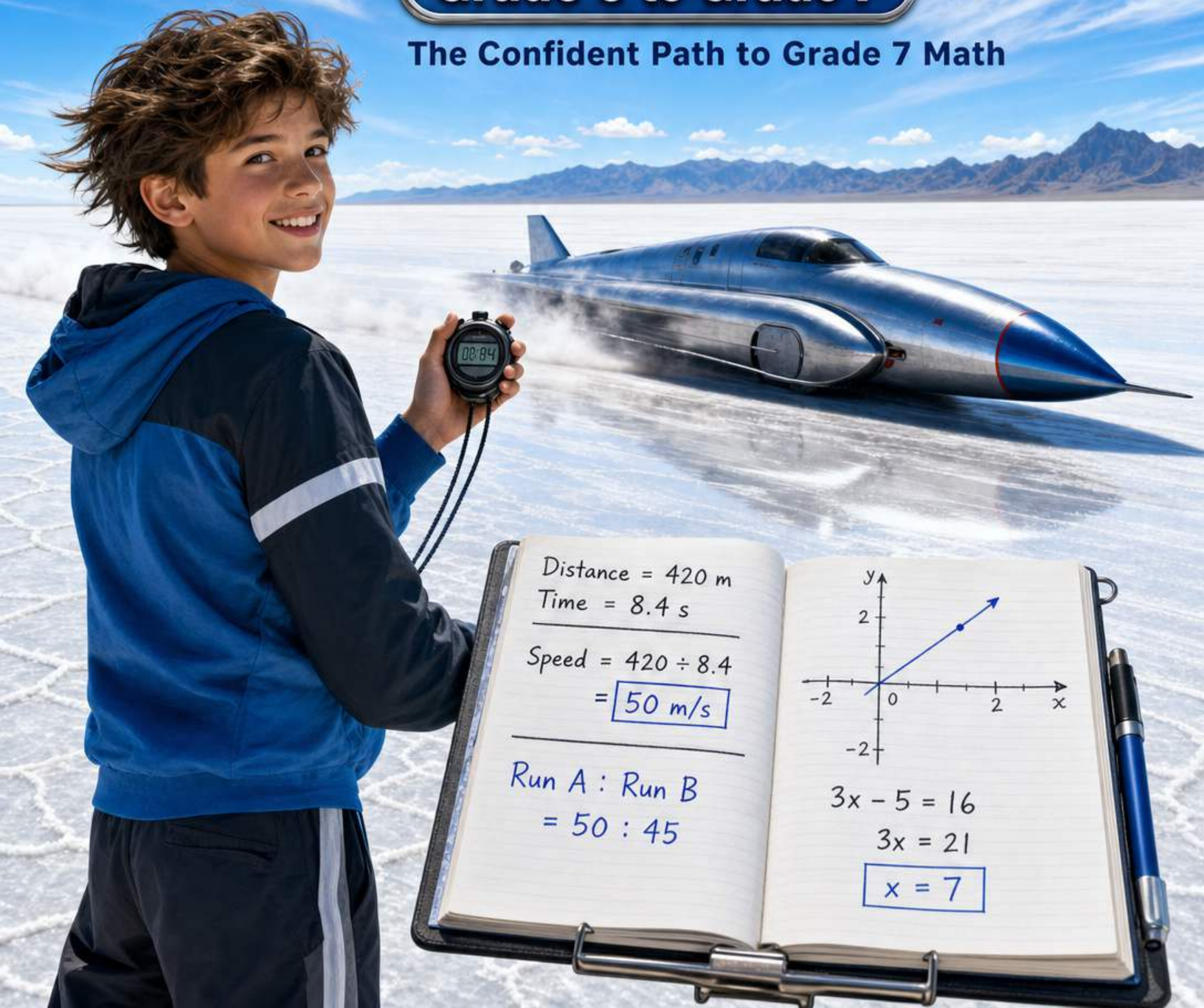
Utah Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

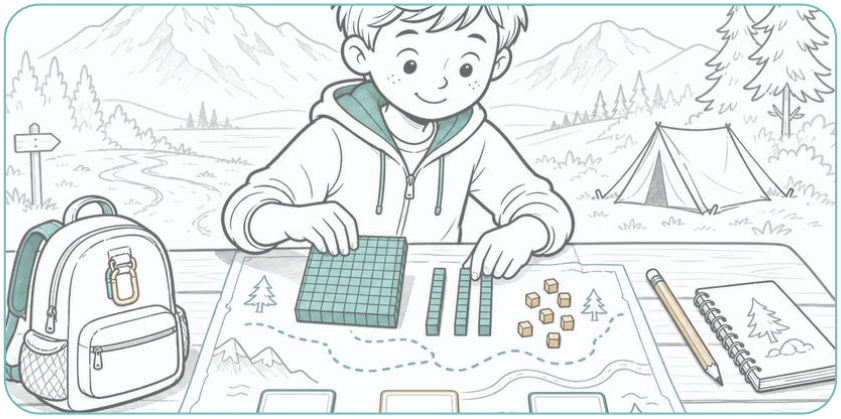
Summer Bridge

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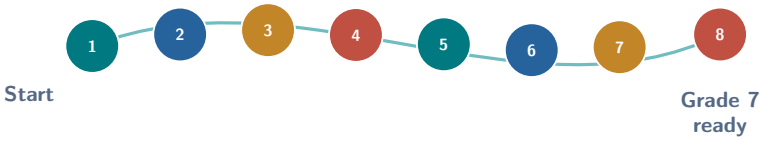
Utah RISE

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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Utah 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.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.

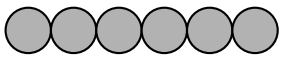
1. A fruit basket holds 4 pears and 6 apples. Write the ratio of pears to apples in simplest form.

☐ **A.** 2 : 3
☐ **B.** 3 : 2
☐ **C.** 4 : 6
☐ **D.** 2 : 5

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

Striped





Solid

☐ A. 3 : 4
☐ B. 4 : 3
☐ C. 6 : 8
☐ D. 8 : 6

3. 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.

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 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

6. 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

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.
☐ 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.

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

☐ A. $10 per hour

☐ B. $11 per hour

☐ C. $12 per hour

☐ D. $13 per hour

★ Challenge! Think a little deeper

13. Which of these is written as a unit rate?

☐ **A.** $4 per pound

☐ **B.** 3 : 4

☐ **C.** 12 for 4

☐ **D.** 2 to 5

14. The cost to rent a van is $50 per day plus $0.20 per mile driven. If the total cost for one day was $74, how many miles were driven?

☐ A. 105 miles

☐ B. 110 miles

☐ C. 115 miles

☐ D. 120 miles



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

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Day 4

D1 D2 D3 D4 D5

★ Fun Review 6.RP.2, 6.RP.3

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. 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.

2. 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.** 52

☐ **D.** 14

3. 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)

4. 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.

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.** 13

☐ **B.** 64

☐ **C.** 17

☐ **D.** 15

Scan Me

6. 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)

7. 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.

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

Distance	Time
12 miles	2 hours

☐ **A.** 6
☐ **B.** 14
☐ **C.** 4
☐ **D.** 8

9. 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)

10. 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.

11. 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.

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

Distance	Time
40 miles	5 hours

☐ **A.** 6
☐ **B.** 8
☐ **C.** 45
☐ **D.** 10