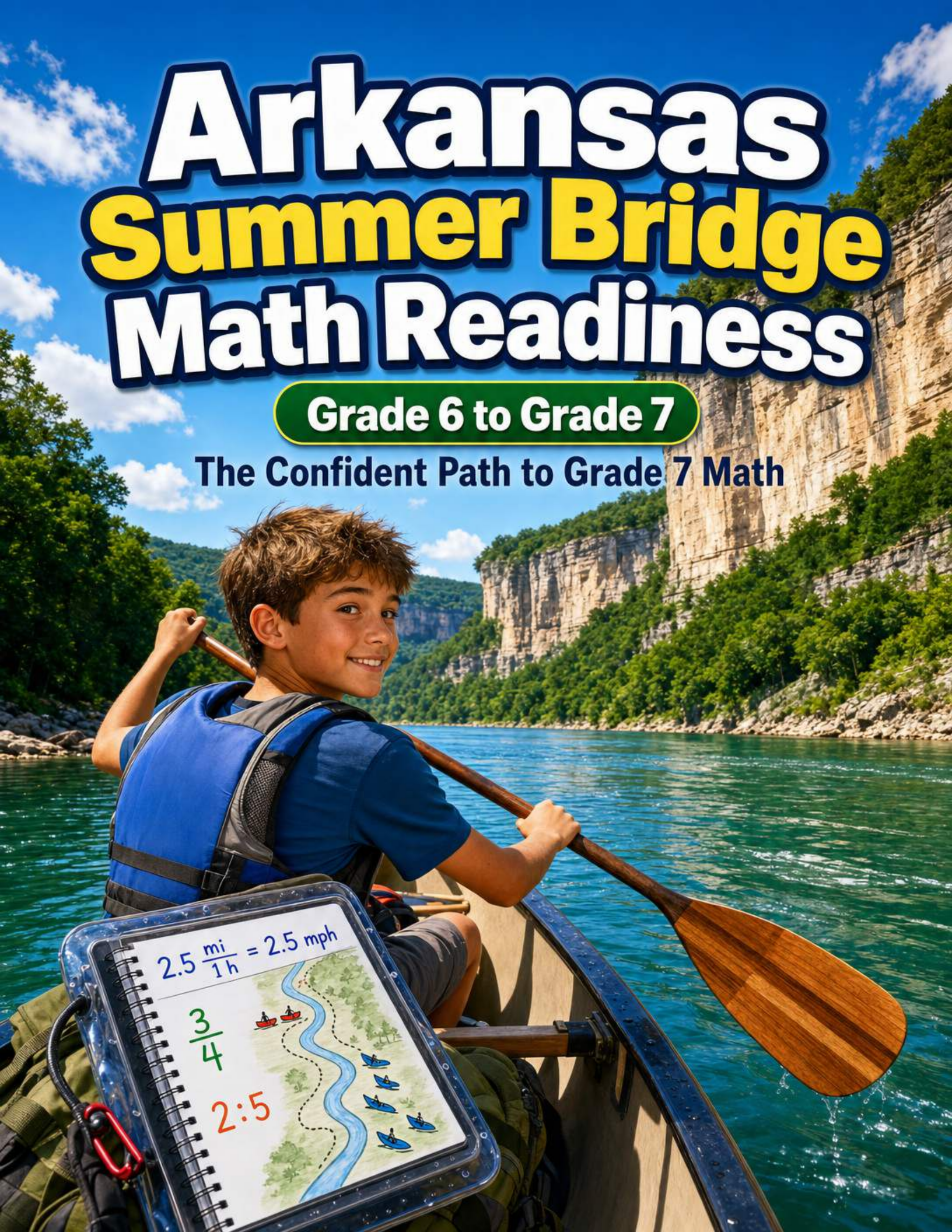
Arkansas Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

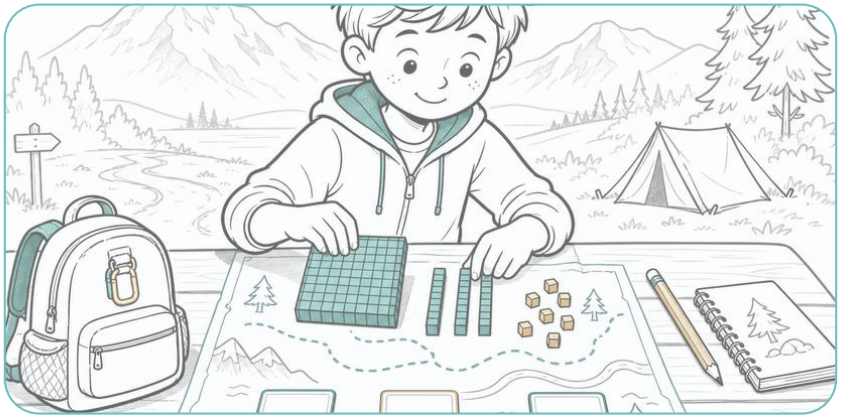
Summer Bridge

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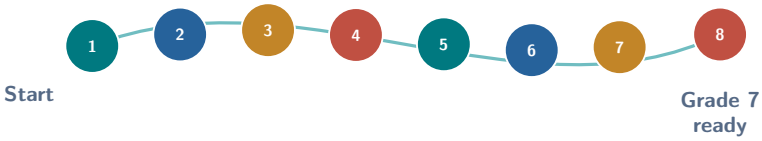
Arkansas ATLAS

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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Arkansas 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.PR.3, 6.PR.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. A pizza has 3 cheese slices and 5 veggie slices. Write the ratio of cheese to veggie slices.

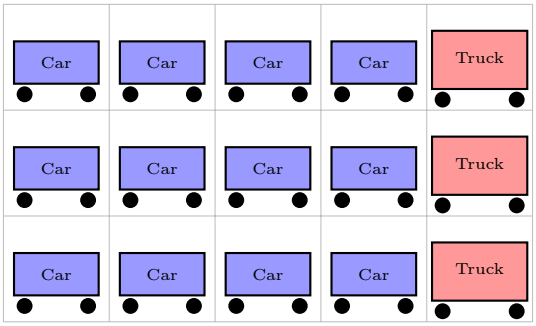
☐ **A.** 5 : 3

☐ **B.** 3 : 8

☐ **C.** 3 : 5

☐ **D.** 8 : 3

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



Parking Lot

☐ A. 3 : 1

☐ B. 4 : 1

☐ C. 5 : 1

☐ D. 1 : 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.

4. 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

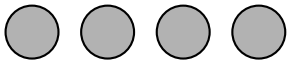
☐ B. 2:3

☐ D. 6:9

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. 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

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

☐ **A.** 2 : 3

☐ **C.** 4 : 6

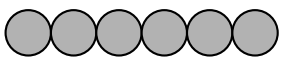
☐ **B.** 3 : 2

☐ **D.** 2 : 5

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

Striped





Solid



Day 4

D1 D2 D3 D4 D5

★ Fun Review 6.PR.3, 6.PR.5

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. 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)

2. 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.** 18

☐ **B.** 8

☐ **C.** 10

☐ **D.** 6

3. 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.

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)

☐ **B.** They tie

☐ **C.** Team A (14)

☐ **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
30 miles	5 hours

☐ **A.** 8

☐ **B.** 6

☐ **C.** 4

☐ **D.** 35

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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. 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

8. 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.** 45

☐ **B.** 10

☐ **C.** 8

☐ **D.** 6

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. 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.

11. 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.

12. 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.** 4

☐ **B.** 21

☐ **C.** 8

☐ **D.** 6

★ Challenge!

Think a little deeper

13. 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)

14. 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.



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

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