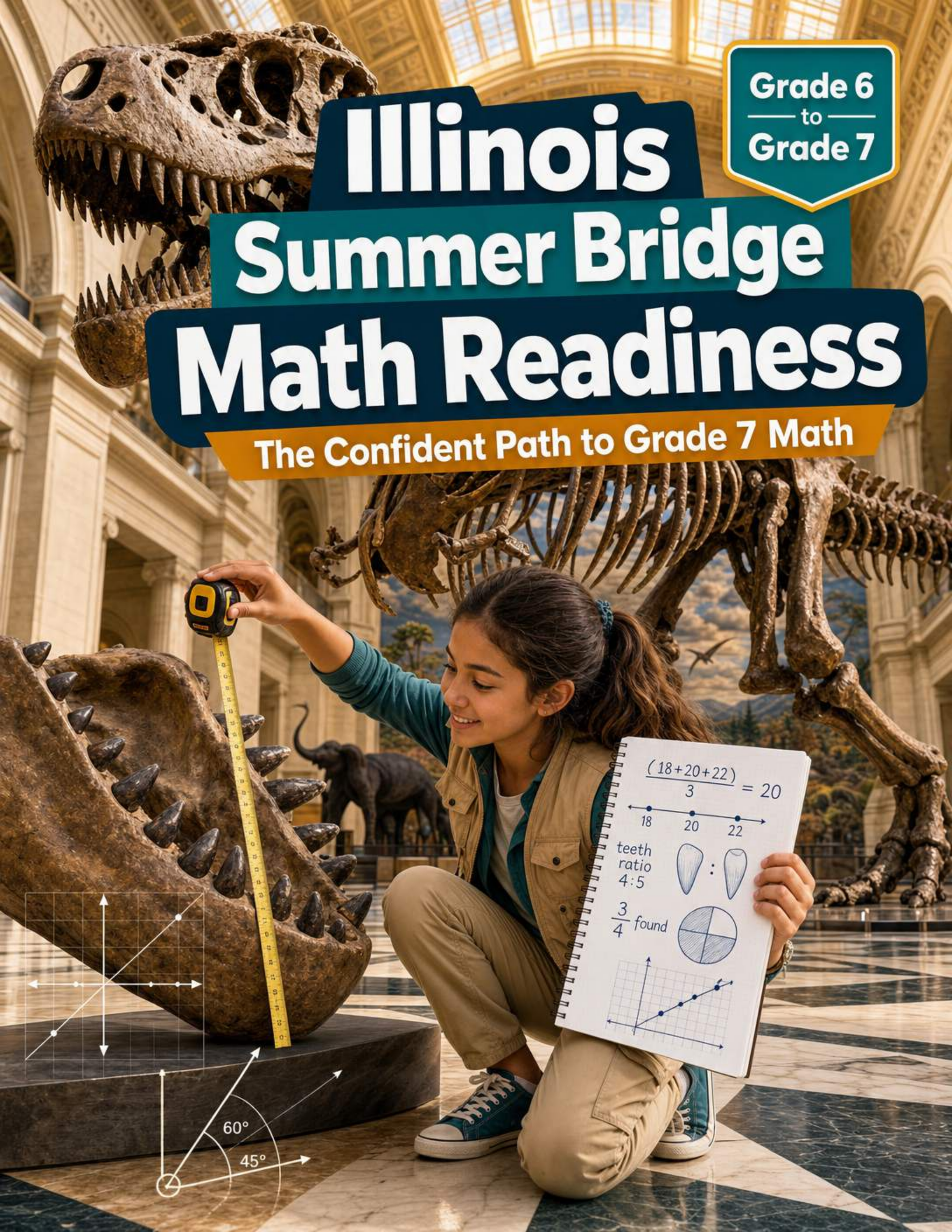
Grade 6 to Grade 7

Illinois Summer Bridge Math Readiness

The Confident Path to Grade 7 Math



GRADE 6 TO 7

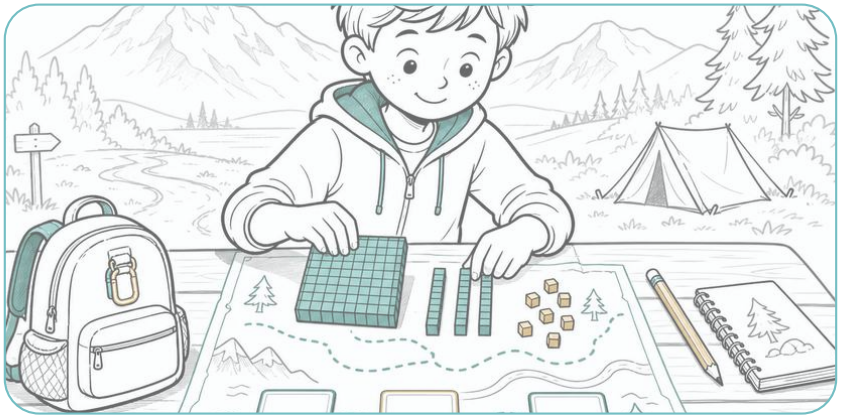
Summer Bridge

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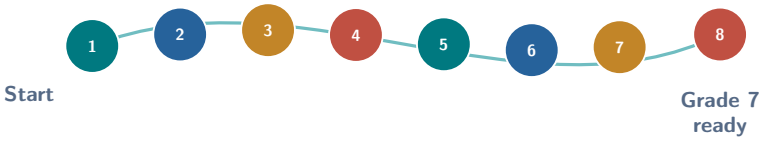
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Grade 6 to 7 Math

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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Illinois 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

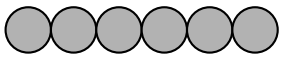
☐ B. 2:3

☐ D. 6:9

2. The diagram shows circles representing 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

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

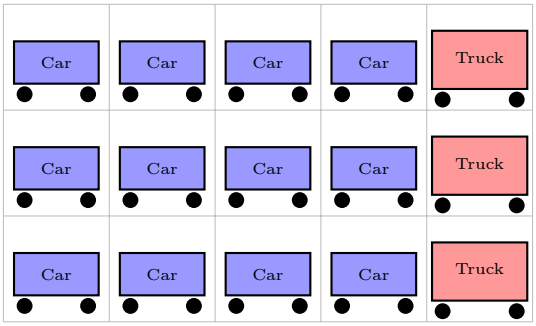
☐ A. 4:6

☐ B. 2:3

☐ C. 2:5

☐ D. 5:2

5. 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

6. 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.

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

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

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

7. 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

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

★ Challenge! Think a little deeper

13. A car travels 240 miles using 8 gallons of gas. What is the unit rate in miles per gallon?

☐ A. 25 miles per gallon

☐ C. 30 miles per gallon

☐ B. 28 miles per gallon

☐ D. 32 miles per gallon

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.

Scan Me



Day 4

D1 D2 D3 D4 D5

★ Fun Review A.3d, 6.RP.A.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. 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.

2. 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.** 14

☐ **B.** 8

☐ **C.** 6

☐ **D.** 4

3. 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.

4. 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.

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

Distance	Time
24 miles	3 hours

☐ **A.** 10
☐ **B.** 6
☐ **C.** 8
☐ **D.** 27

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. 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.

8. 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.** 52
☐ **B.** 12
☐ **C.** 14
☐ **D.** 10

9. 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.

10. 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.

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)