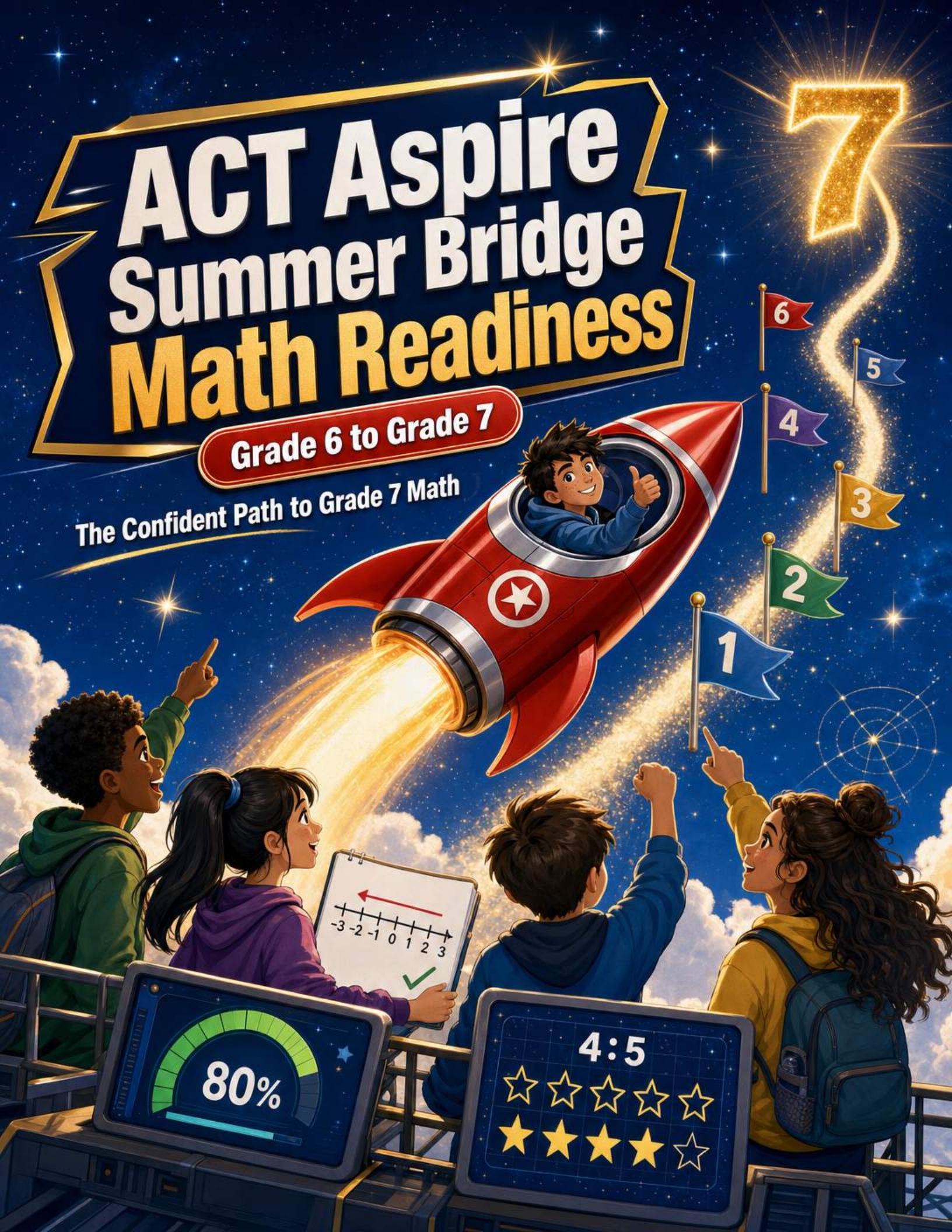

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GRADE
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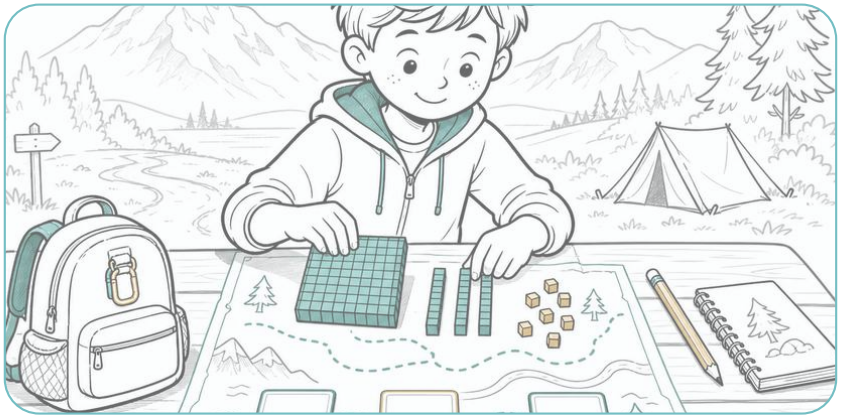
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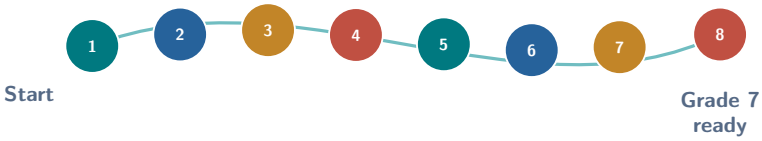
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ACT Aspire Grade 6 to 7 Summer Bridge

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.

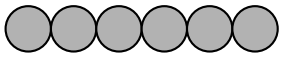
1. A trail mix contains 7 parts peanuts and 3 parts raisins. Write the ratio of peanuts to the total mix in simplest form.

Write your answer in this box.

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. Write the ratio 9 : 12 in simplest form.

☐ **A.** 3 : 4
☐ **B.** 4 : 3
☐ **C.** 9 : 12
☐ **D.** 1 : 3

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 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 parking lot has 14 cars and 6 trucks. Write the ratio of trucks to *all* vehicles in simplest form.

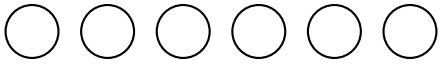
☐ **A.** 6 : 14
☐ **B.** 3 : 10
☐ **C.** 7 : 10
☐ **D.** 10 : 3

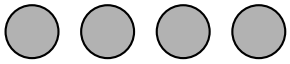
7. A snack mix has 4 cups of pretzels and 6 cups of crackers. Which statement is correct?

☐ 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.

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

White Marbles





Gray Marbles

★ Challenge!

Think a little deeper

13. Six apples cost \$3.00. What is the cost per apple?

☐ **A.** \$2.00
☐ **C.** \$0.50
☐ **B.** \$1.50
☐ **D.** \$18.00

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.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. 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
12 miles	2 hours

☐ **A.** 4

☐ **B.** 14

☐ **C.** 8

☐ **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. 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.

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.** 6

☐ **B.** 4

☐ **C.** 8

☐ **D.** 35

Scan Me

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. 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
75 miles	5 hours

☐ **A.** 17

☐ **B.** 15

☐ **C.** 13

☐ **D.** 80

9. 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.

10. 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)

11. 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.

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.** 10

☐ **B.** 8

☐ **C.** 6

☐ **D.** 18