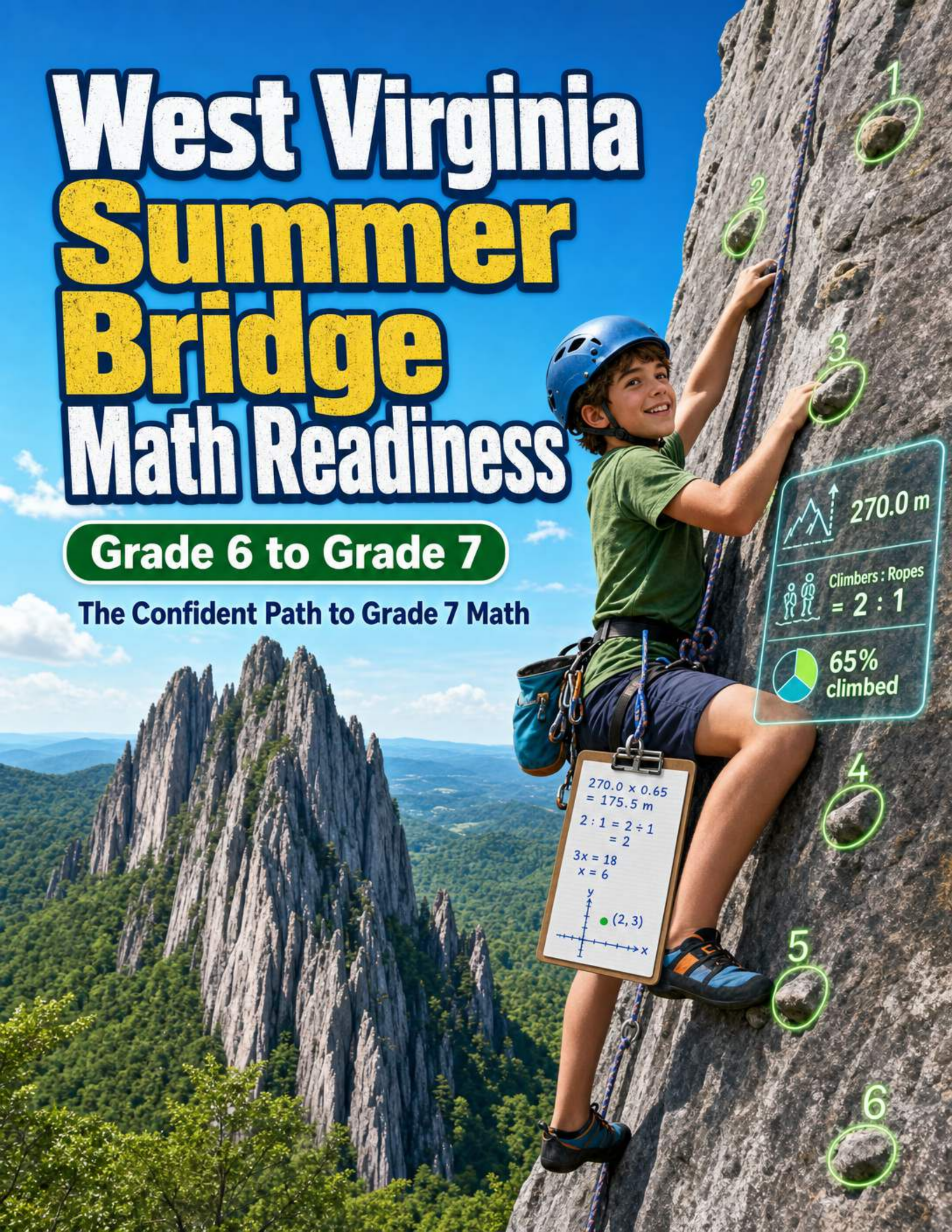
West Virginia Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

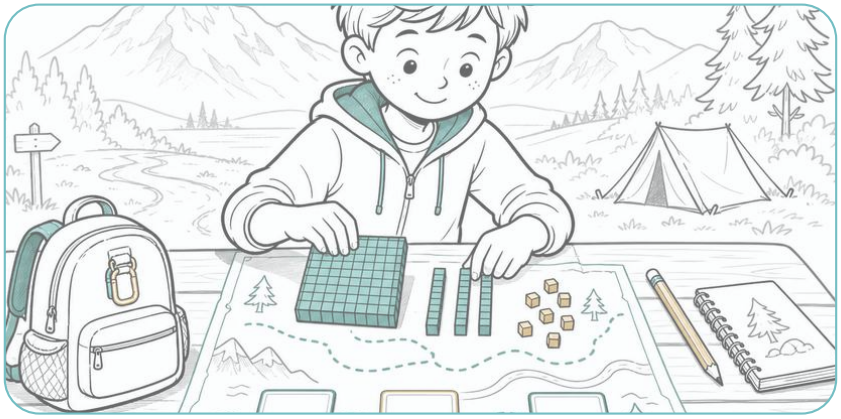
Summer Bridge

MATH SUMMER BRIDGE

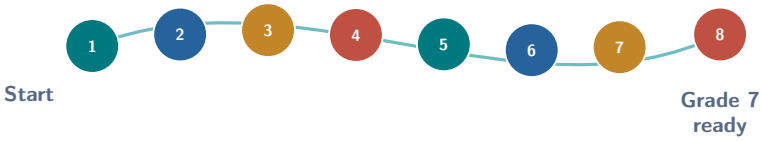
West Virginia WVGSA

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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West Virginia 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

M.6.3



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?

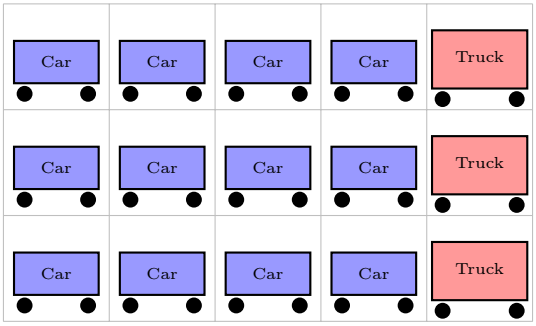
☐ A. 18:27

☐ C. 3:2

☐ B. 2:3

☐ D. 6:9

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



Parking Lot

☐ A. 3 : 1

☐ C. 5 : 1

☐ B. 4 : 1

☐ D. 1 : 4

3. A pizza has 3 cheese slices and 5 veggie slices. Write the ratio of cheese to veggie slices.

☐ **A.** 5 : 3
☐ **C.** 3 : 5
☐ **B.** 3 : 8
☐ **D.** 8 : 3

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

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

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
☐ **C.** 1
☐ **B.** 4 : 4
☐ **D.** 1 : 1

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

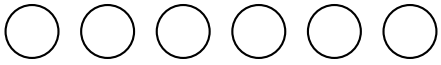
☐ A. The ratio of pretzels to crackers is 2:3.
☐ C. The ratio of pretzels to the total mix is 2:3.
☐ B. The ratio of pretzels to crackers is 4:10.
☐ D. The ratio of pretzels to the total mix is 6:10.

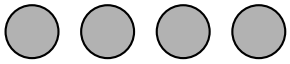
7. There are 6 red marbles and 9 blue marbles in a bag. Write the ratio of red marbles to blue marbles in simplest form.

Write your answer in this box.

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. A bike rider travels 66 miles in 6 hours. What is the speed in miles per hour?

☐ **A.** 12 ☐ **C.** 60

☐ **B.** 11 ☐ **D.** 396

14. A water tank is being drained at a rate of 600 gallons per hour. If the tank holds 43,200 gallons of water when full, how many days will it take to empty the tank completely?

☐ A. 2.5 days ☐ C. 3.0 days

☐ B. 2.8 days ☐ D. 3.2 days



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

Scan Me



Day 4

D1 D2 D3 D4 D5

★ Fun Review

M.6.3, M.6.20

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. 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.

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

Distance	Time
24 miles	2 hours

☐ **A.** 14

☐ **B.** 12

☐ **C.** 10

☐ **D.** 26

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. 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
30 miles	5 hours

☐ **A.** 35

☐ **B.** 8

☐ **C.** 6

☐ **D.** 4

Scan Me

6. 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.

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
24 miles	2 hours

☐ **A.** 10
☐ **B.** 12
☐ **C.** 14
☐ **D.** 26

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. 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. 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)

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

Distance	Time
75 miles	5 hours