
North Carolina
Summer Bridge
Math Readiness
Grade 6 to Grade 7
The Confident Path to Grade 7 Math
Height = 64.0 m
Stairs climbed = 75%
Black : White = 7 : 7

GRADE 6 TO 7

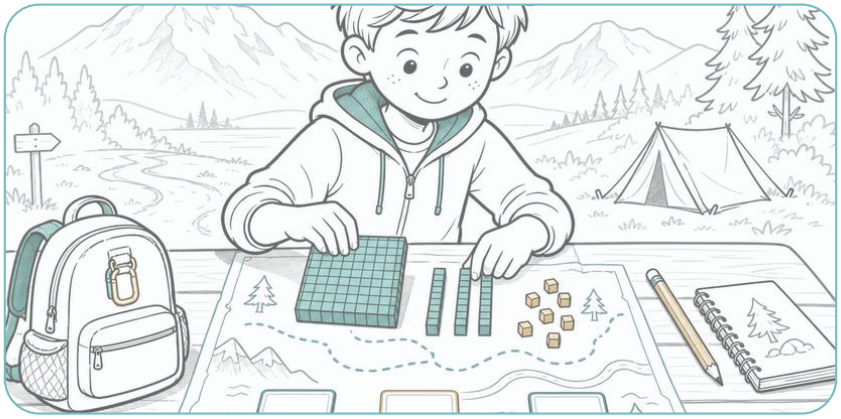
Summer Bridge

MATH SUMMER BRIDGE

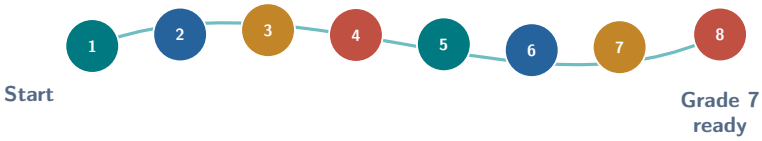
North Carolina EOG

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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North Carolina 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 RP.3, NC.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 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 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

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 fruit juice blend contains 5 parts orange juice and 3 parts apple juice. What is the ratio of orange juice to the total amount of juice?

☐ A. 3:5

☐ B. 5:3

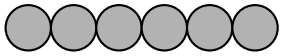
☐ C. 5:8

☐ D. 8:5

5. 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

6. 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.

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

☐ **A.** 6 : 14

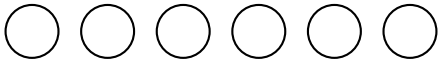
☐ **C.** 7 : 10

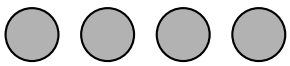
☐ **B.** 3 : 10

☐ **D.** 10 : 3

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 cyclist travels at a constant speed of 18 miles per hour. How many miles will the cyclist travel in 2.5 hours?

☐ A. 36 miles

☐ C. 45 miles

☐ B. 40 miles

☐ D. 50 miles

14. A bakery sells 8 bagels for $10.00. Find the price of one bagel, then use it to find the cost of 20 bagels.

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 RP.3, NC.6.RP.2

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. 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.

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

Distance	Time
36 miles	4 hours

☐ **A.** 7

☐ **B.** 11

☐ **C.** 9

☐ **D.** 40

3. 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.

4. 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)

5. 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.** 6

☐ **B.** 8

☐ **C.** 21

☐ **D.** 4

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. 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.

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

Distance	Time
36 miles	4 hours

☐ **A.** 11
☐ **B.** 7
☐ **C.** 9
☐ **D.** 40

9. 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.

10. 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.

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.** 18
☐ **B.** 10
☐ **C.** 8
☐ **D.** 6