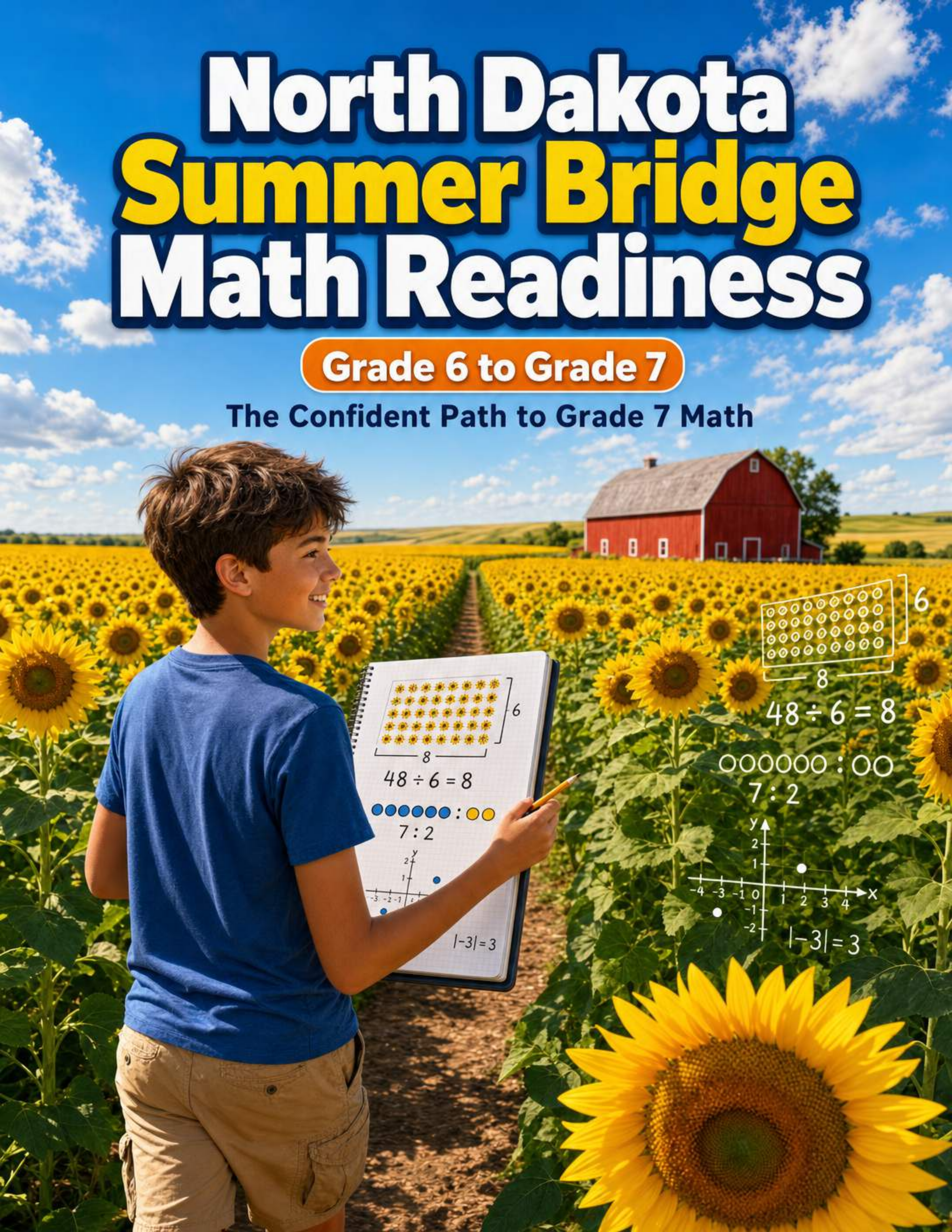
North Dakota Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

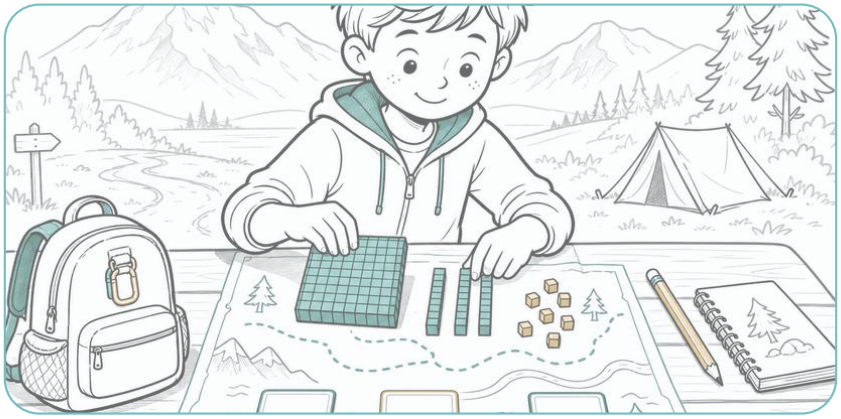
Summer Bridge

MATH SUMMER BRIDGE

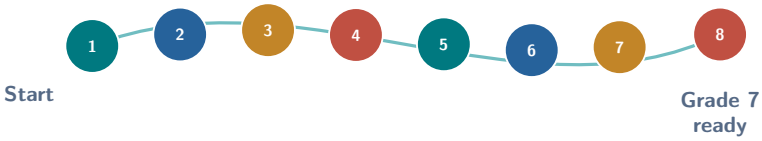
North Dakota NDSA

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

Effortless Math Education

Independent educational publishing

Published by Effortless Math Education

EffortlessMath.com

Independent Publication Notice

This publication is independently produced and has no official connection to any state, district, or testing program. Names used for state identity belong to their respective holders.

North Dakota Grade 6 to 7 Summer Bridge

By Reza Nazari

Copyright © 2026 Effortless Math Education Inc.

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.AR.RP.1, 6.AR.RP.4



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. In a chess club, the ratio of beginners to advanced players is 5:2. Which statement is correct?

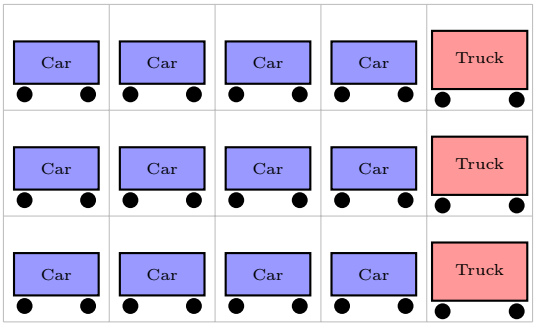
☐ A. There are 5 advanced players for every 2 beginners.

☐ C. The total number of players is 7.

☐ B. For every 5 beginners, there are 2 advanced players.

☐ D. There are exactly 5 beginners and 2 advanced players.

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

Scan Me

3. 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.

4. A shelf holds 18 fiction and 12 nonfiction books. Write the ratio of nonfiction to fiction in simplest form.

☐ **A.** 3 : 2

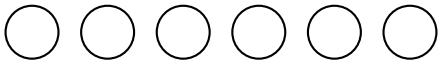
☐ **B.** 2 : 3

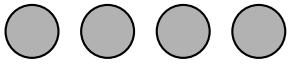
☐ **C.** 4 : 9

☐ **D.** 6 : 5

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

White Marbles





Gray Marbles

☐ A. 2 : 3

☐ B. 3 : 2

☐ C. 4 : 6

☐ D. 6 : 4

6. Write the ratio 9 : 12 in simplest form.

☐ **A.** 3 : 4

☐ **B.** 4 : 3

☐ **C.** 9 : 12

☐ **D.** 1 : 3

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 balloons. What is the ratio of striped balloons to solid balloons?

12. 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.** 9
☐ **B.** 7
☐ **C.** 40
☐ **D.** 11

★ Challenge! Think a little deeper

13. A store sells apples for $1.20 per pound. If you buy 3.5 pounds of apples, how much will you pay?

☐ A. $3.60
☐ B. $4.00
☐ C. $4.20
☐ D. $4.40

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
☐ B. 2.8 days
☐ C. 3.0 days
☐ D. 3.2 days



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



Day 4

D1 D2 D3 D4 D5

★ Fun Review 6.AR.RP.2, 6.AR.RP.4

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
45 miles	3 hours

☐ **A.** 48

☐ **B.** 13

☐ **C.** 15

☐ **D.** 17

3. 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)

4. 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)

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

Distance	Time
18 miles	2 hours

☐ **A.** 7

☐ **B.** 11

☐ **C.** 9

☐ **D.** 20

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
27 miles	3 hours

☐ **A.** 9
☐ **B.** 30
☐ **C.** 7
☐ **D.** 11

9. 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.

10. 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)

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.** 6
☐ **B.** 21
☐ **C.** 4
☐ **D.** 8