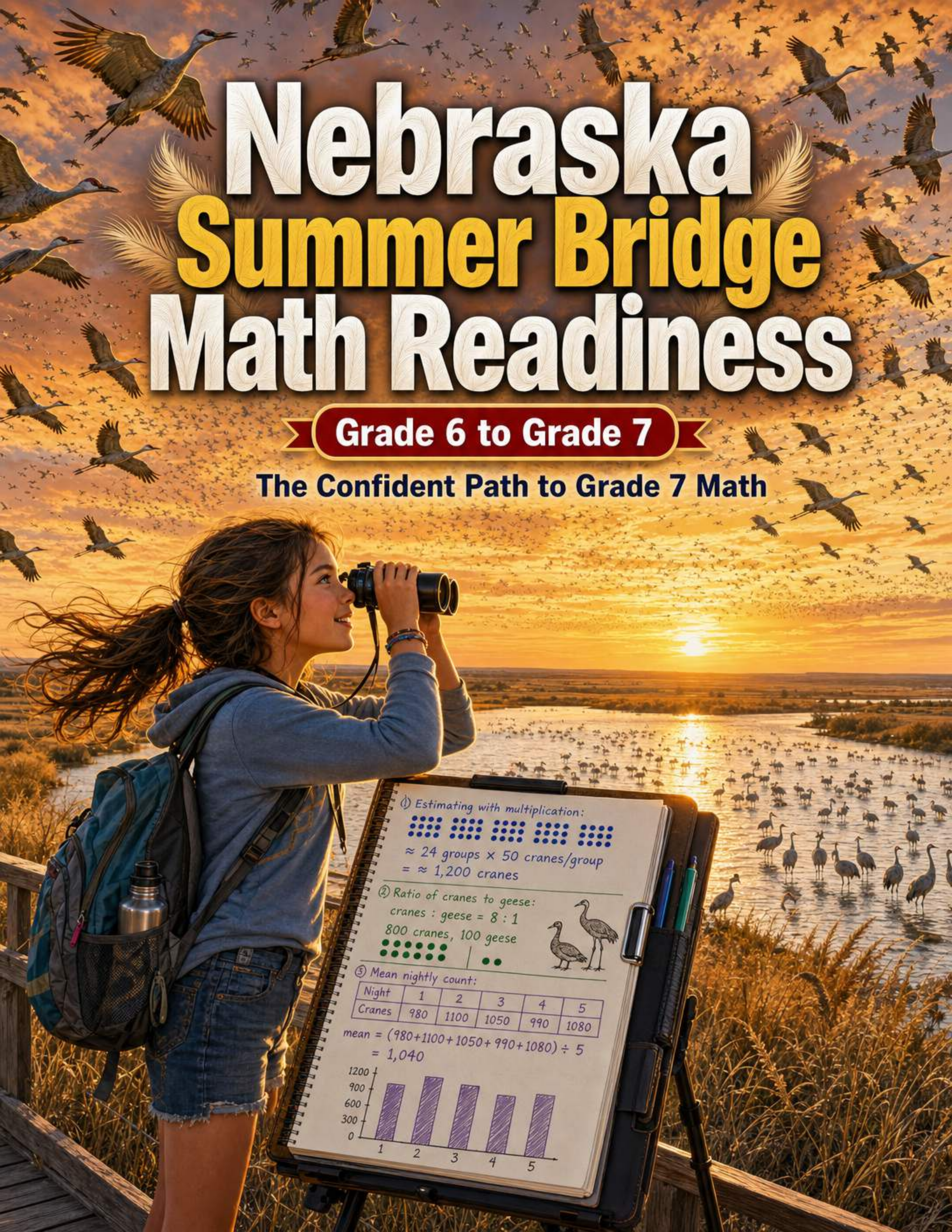
# Nebraska Summer Bridge Math Readiness

## Grade 6 to Grade 7

### The Confident Path to Grade 7 Math



GRADE 6 TO 7

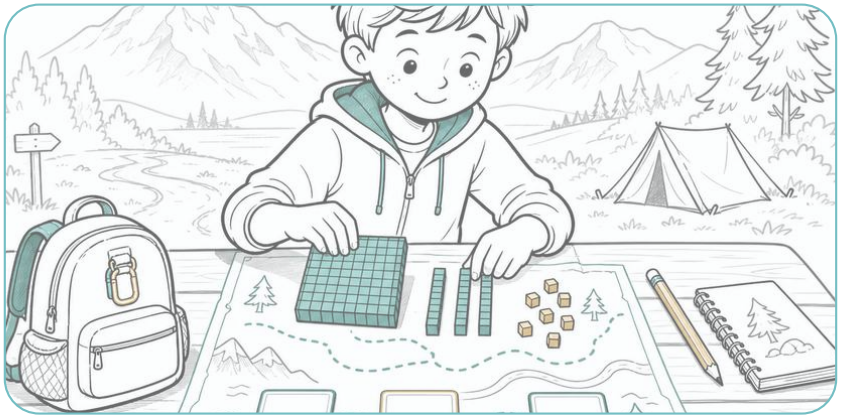
Summer Bridge

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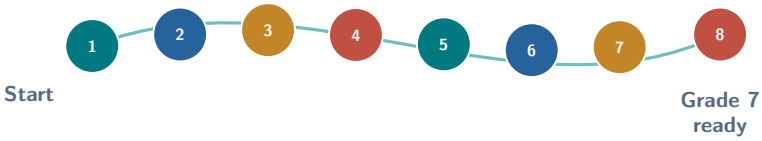
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# Grade 6 to 7 Math

## 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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**Nebraska 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.G.3, 6.A.2



# 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.

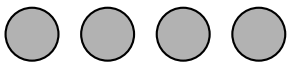
**1.** There are 6 red marbles and 9 blue marbles in a bag. Write the ratio of red marbles to blue marbles in simplest form.

**Write your answer in this box.**

**2.** 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

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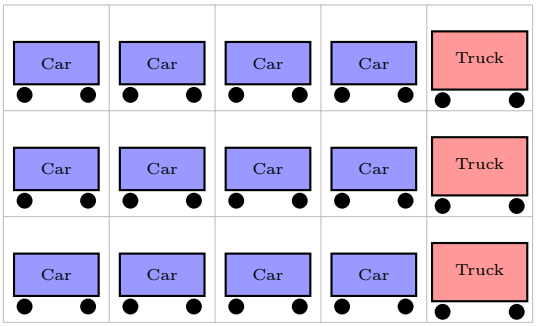
**3.** A pizza has 3 cheese slices and 5 veggie slices. Write the ratio of cheese to veggie slices.

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

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

☐ **A.** 3 : 2
☐ **C.** 4 : 9
☐ **B.** 2 : 3
☐ **D.** 6 : 5

**5.** 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

**6.** 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
☐ C. 5:8
☐ B. 5:3
☐ D. 8:5

**7.** 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.**

**8.** 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 |



Day 4

D1 D2 D3 D4 D5

★ Fun Review

6.G.1, 6.A.1

# 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?

⇒ \$2.40 ÷ 3 = \$0.80 per can; \$4.00 ÷ 5 = \$0.80 per can. They cost the same per can.

**1.** 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.**

**2.** 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.** 8

☐ **B.** 10

☐ **C.** 27

☐ **D.** 6

**3.** 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.**

**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)



Scan Me

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

| Distance | Time |
|---|---|
| 60 miles | 5 hours |

☐ **A.** 10
☐ **B.** 12
☐ **C.** 65
☐ **D.** 14

**6.** 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.

**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 |
|---|---|
| 32 miles | 4 hours |

☐ **A.** 36
☐ **B.** 8
☐ **C.** 10
☐ **D.** 6

**9.** 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)

**10.** 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.

**11.** 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.

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

| Distance | Time |
|---|---|
| 40 miles | 5 hours |

☐ **A.** 8
☐ **B.** 10
☐ **C.** 45
☐ **D.** 6

## ★ Challenge! Think a little deeper

**13.** 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.

**14.** 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)



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