IOWA SUMMER BRIDGE MATH READINESS

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

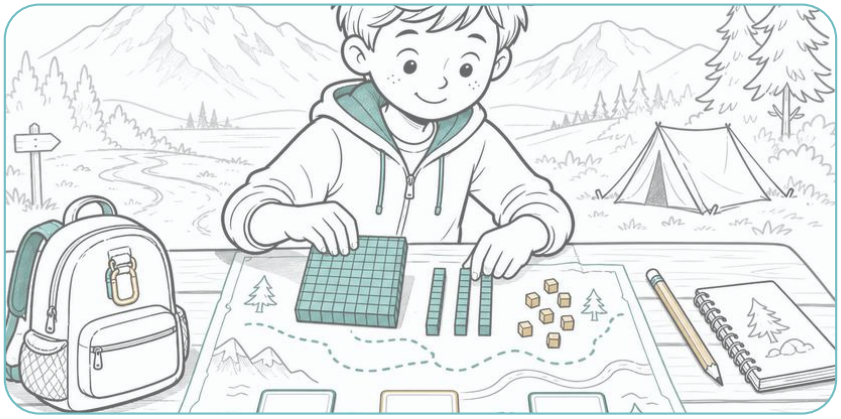
Summer Bridge

MATH SUMMER BRIDGE

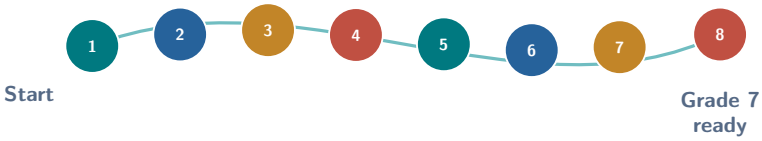
Iowa ISASP

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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Iowa 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.A.1, 6.RP.A.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.

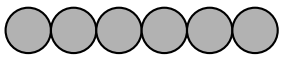
1. A pizza has 3 cheese slices and 5 veggie slices. Write the ratio of cheese to veggie slices.

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

2. The 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

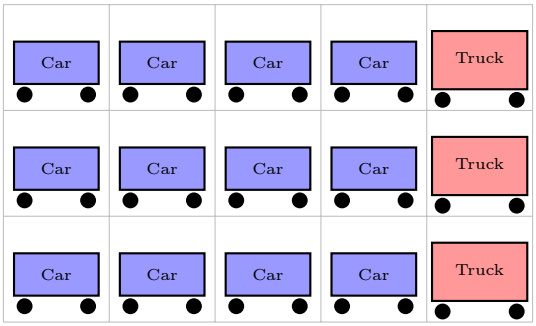
3. A parking lot has 14 cars and 6 trucks. Write the ratio of trucks to *all* vehicles in simplest form.

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

4. In a club, the ratio of left-handed to right-handed students is 2 : 7. If there are 27 students in all, how many are left-handed?

☐ **A.** 7
☐ **C.** 9
☐ **B.** 6
☐ **D.** 18

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 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

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

☐ **A.** 1 : 2
☐ **C.** 1
☐ **B.** 4 : 4
☐ **D.** 1 : 1

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

★ Challenge! Think a little deeper

13. A car travels 120 miles in 3 hours. What is the speed in miles per hour?

☐ **A.** 60
☐ **B.** 40
☐ **C.** 30
☐ **D.** 360

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.RP.A.1, 6.RP.A.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. 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.

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.** 13
☐ **B.** 15
☐ **C.** 48
☐ **D.** 17

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
24 miles	4 hours

☐ **A.** 28
☐ **B.** 4
☐ **C.** 8
☐ **D.** 6

6. 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.

7. 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.

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

Distance	Time
60 miles	4 hours

☐ **A.** 17
☐ **B.** 15
☐ **C.** 64
☐ **D.** 13

9. To compare two rates fairly, the best first step is to:

☐ **A.** add the two rates
☐ **B.** round both numbers
☐ **C.** flip both ratios
☐ **D.** find each unit rate

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. 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.