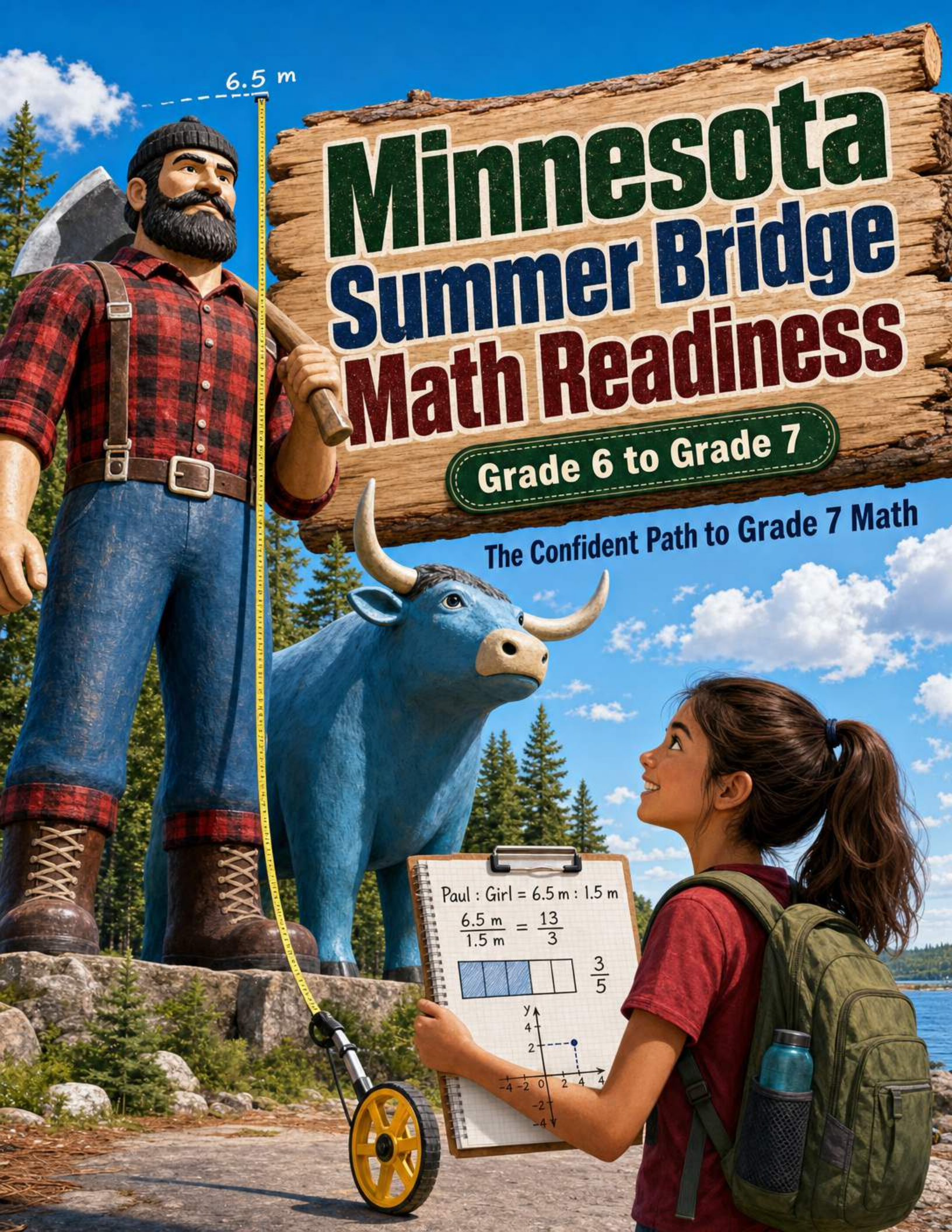

6.5 m
Minnesota
Summer Bridge
Math Readiness
Grade 6 to Grade 7
The Confident Path to Grade 7 Math
Paul : Girl = 6.5 m : 1.5 m
6.5 m / 1.5 m = 13 / 3
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GRADE
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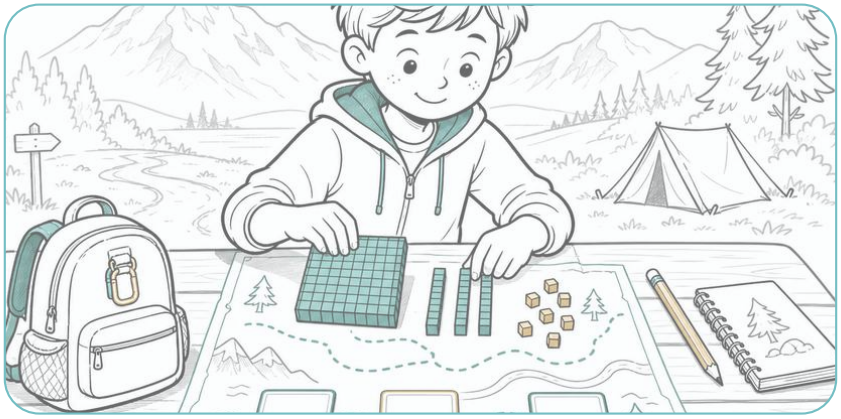
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MATH
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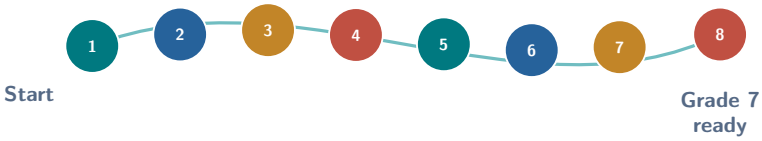
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Minnesota Grade 6 to 7 Summer Bridge

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

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Day 1

D1 D2 D3 D4 D5

★ Fun Review 6.1.2.3, 6.2.2.1



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 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

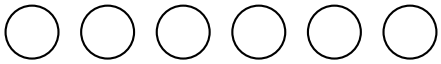
☐ C. 3:2

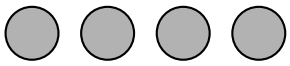
☐ B. 2:3

☐ D. 6:9

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

White Marbles





Gray Marbles

☐ A. 2 : 3

☐ C. 4 : 6

☐ B. 3 : 2

☐ D. 6 : 4

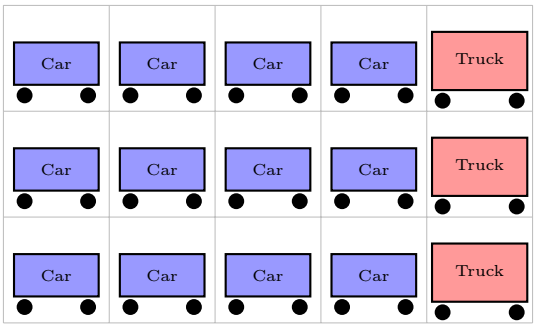
3. A fruit basket holds 4 pears and 6 apples. Write the ratio of pears to apples in simplest form.

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

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. 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 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

8. The diagram shows circles representing balloons. What is the ratio of striped balloons to solid balloons?

★ Challenge!

Think a little deeper

13. Six apples cost \$3.00. What is the cost per apple?

☐ **A.** \$2.00
☐ **C.** \$0.50
☐ **B.** \$1.50
☐ **D.** \$18.00

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.

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Day 4

D1 D2 D3 D4 D5

★ Fun Review 6.1.2.3, 6.1.2.4

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. 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

2. 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.** 21

☐ **B.** 8

☐ **C.** 6

☐ **D.** 4

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. 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
75 miles	5 hours

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☐ **A.** 80
☐ **B.** 17
☐ **C.** 15
☐ **D.** 13

6. 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.

7. 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)

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

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. 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.

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
60 miles	5 hours

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

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