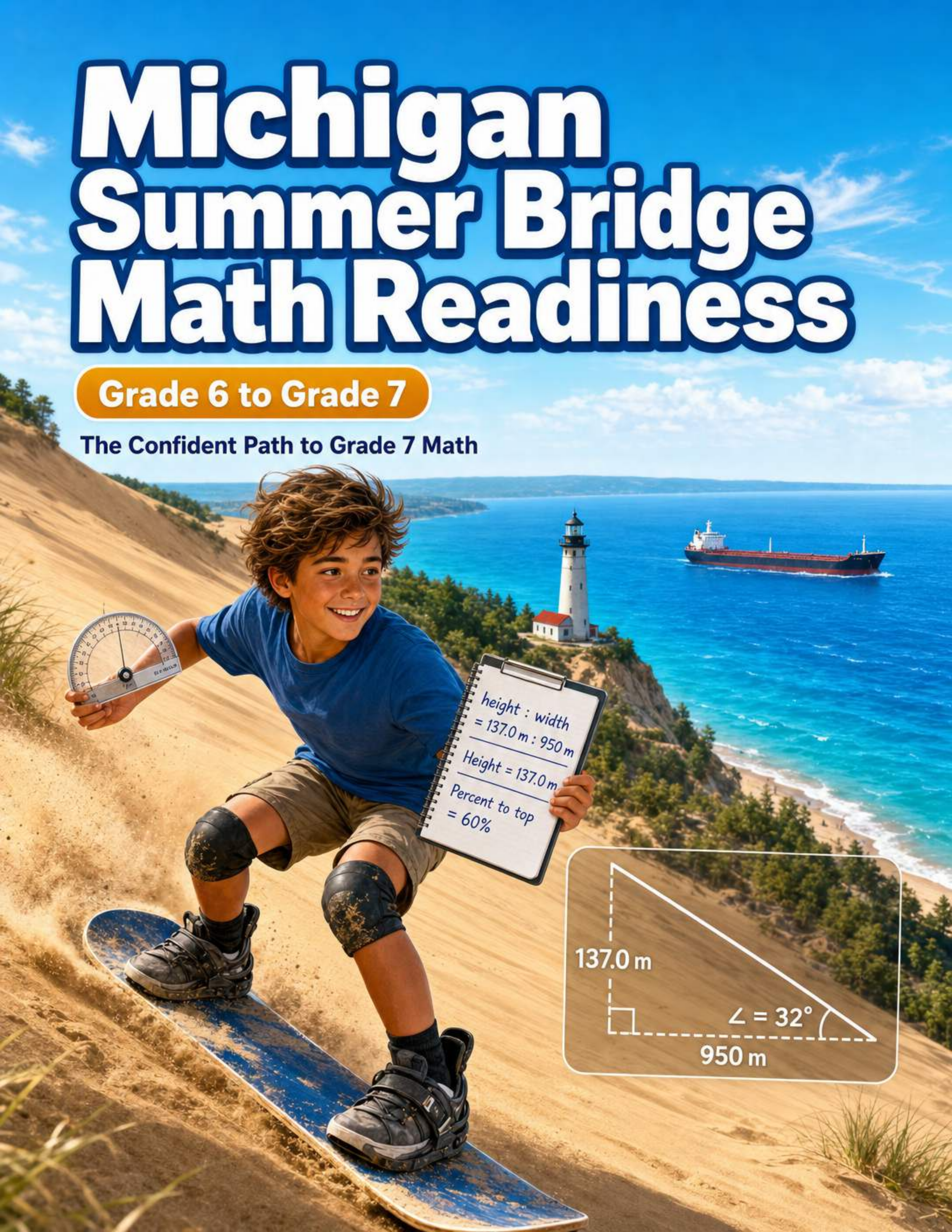
Michigan Summer Bridge Math Readiness

Grade 6 to Grade 7

The Confident Path to Grade 7 Math



GRADE 6 TO 7

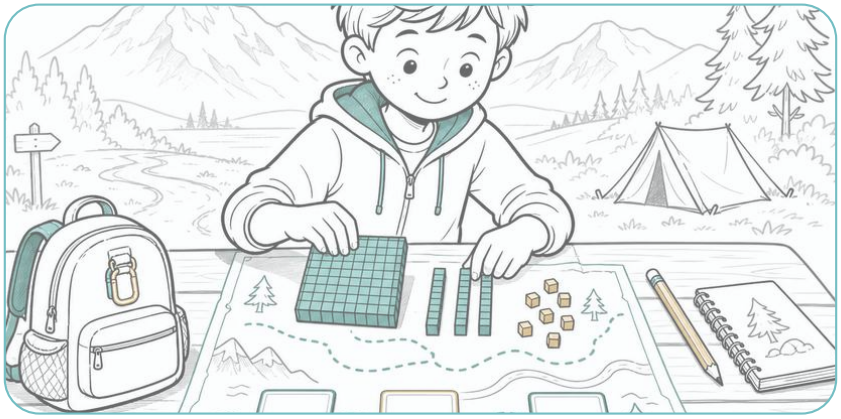
Summer Bridge

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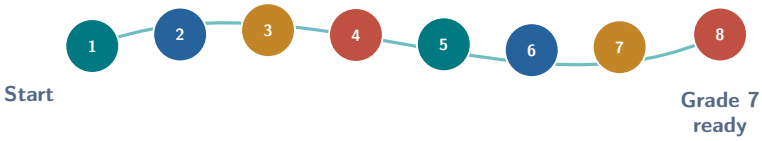
Michigan M-STEP

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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Michigan 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 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.

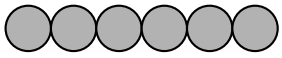
☐ C. The ratio of pretzels to the total mix is 2:3.

☐ D. The ratio of pretzels to the total mix is 6:10.

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 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

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4. 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

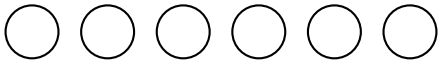
☐ C. 3:2

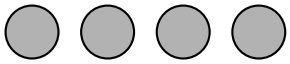
☐ B. 2:3

☐ D. 6:9

5. 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

6. 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

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 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



Day 4

D1 D2 D3 D4 D5

★ Fun Review A.3d, 6.RP.A.3b

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 $\div$ 3 = \$0.80 per can; \$4.00 $\div$ 5 = \$0.80 per can. They cost the same per can.

1. 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.

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.** 17

☐ **D.** 48

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)

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5. 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.** 13
☐ **B.** 17
☐ **C.** 64
☐ **D.** 15

6. 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

7. 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)

8. 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.** 10
☐ **D.** 65

9. 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.

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. 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)

12. 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.** 20
☐ **B.** 9
☐ **C.** 7
☐ **D.** 11

★ Challenge!

Think a little deeper

13. 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.

14. 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.



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

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