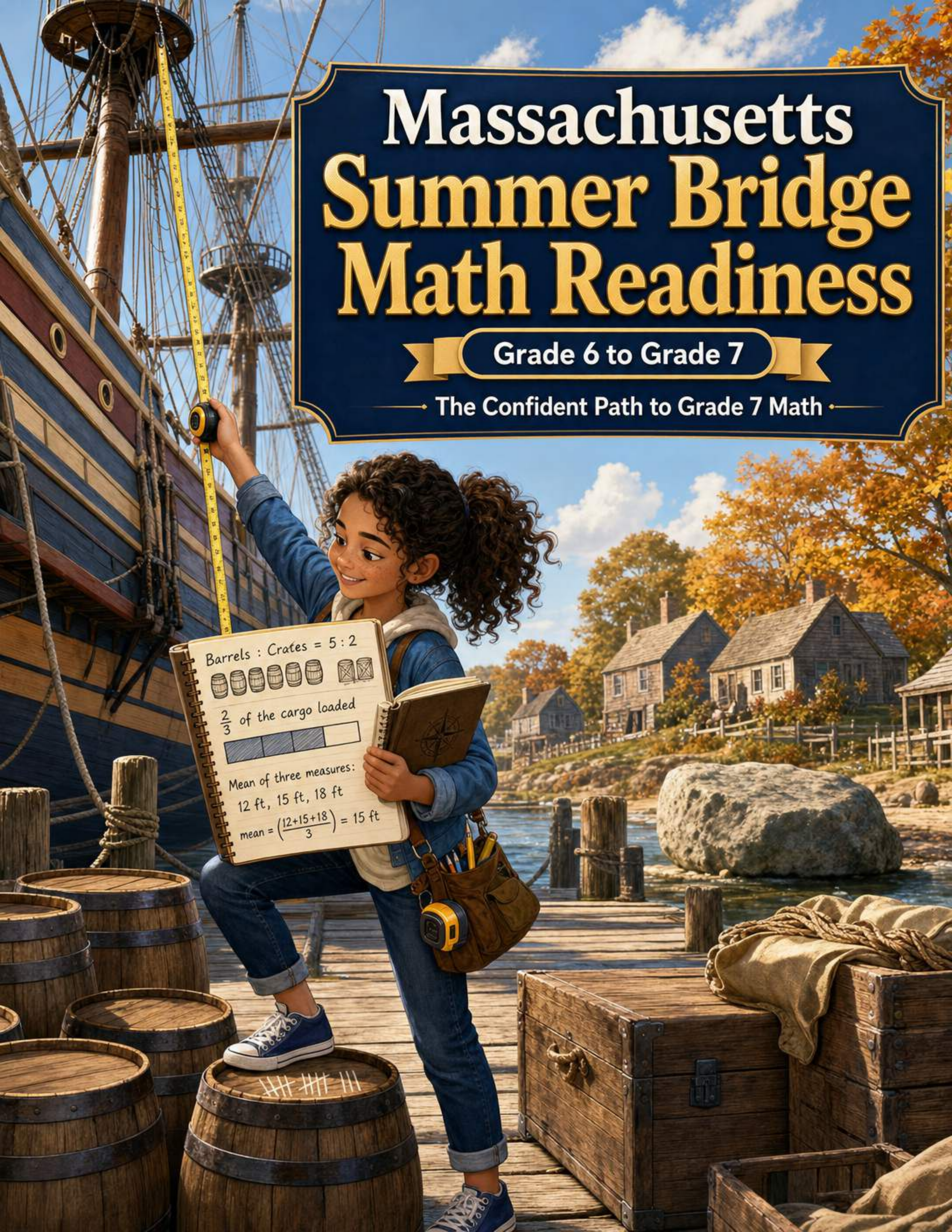

Massachusetts
Summer Bridge
Math Readiness
Grade 6 to Grade 7
The Confident Path to Grade 7 Math
Barrels : Crates = 5 : 2
2/3 of the cargo loaded
Mean of three measures:
12 ft, 15 ft, 18 ft
mean = (12+15+18)/3 = 15 ft

GRADE
6 TO 7

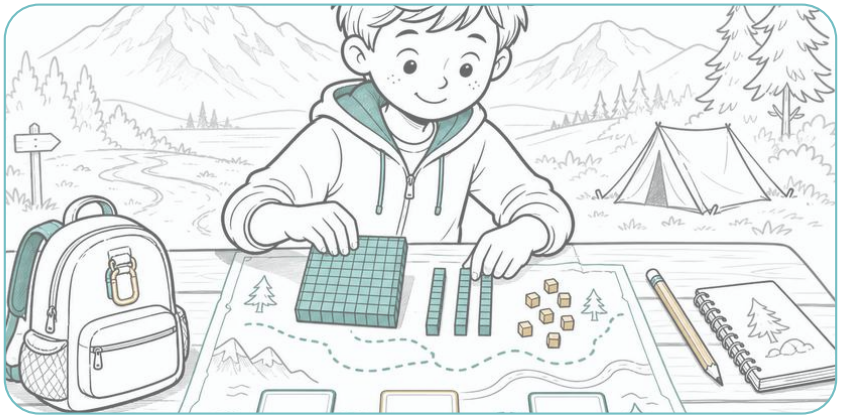
Summer Bridge

MATH
SUMMER
BRIDGE

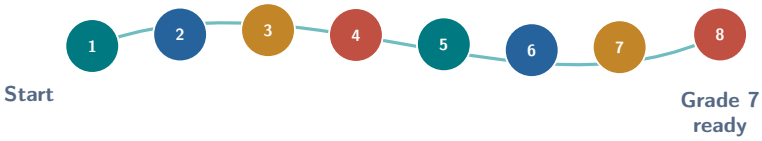
Massachusetts MCAS

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.

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

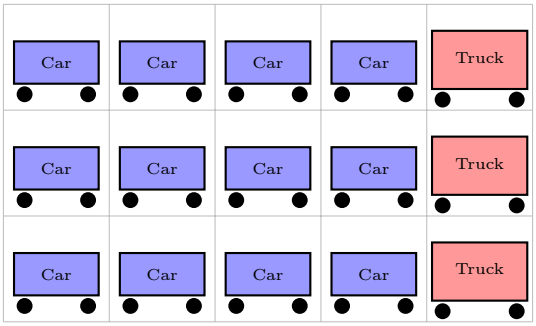
☐ **A.** 3 : 4

☐ **B.** 4 : 3

☐ **C.** 9 : 12

☐ **D.** 1 : 3

2. The parking lot diagram shows cars and trucks. What is the ratio of cars to trucks?



Parking Lot

☐ A. 3 : 1

☐ B. 4 : 1

☐ C. 5 : 1

☐ D. 1 : 4

3. 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

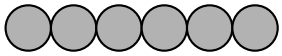
4. A trail mix contains 7 parts peanuts and 3 parts raisins. Write the ratio of peanuts to the total mix in simplest form.

Write your answer in this box.

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

Striped





Solid

☐ A. 3 : 4

☐ C. 6 : 8

☐ B. 4 : 3

☐ D. 8 : 6

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. 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.

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

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.** 4
☐ **C.** 8
☐ **D.** 21

★ Challenge!

Think a little deeper

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

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

14. A car uses 12 gallons of gas to travel 360 miles. Find the unit rate in miles per gallon and show your division.

Write your answer in this box.



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



Day 4

D1 D2 D3 D4 D5

★ Fun Review 6.RP.A.2, 6.NS.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?

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

1. 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.

2. 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.** 6

☐ **B.** 36

☐ **C.** 8

☐ **D.** 10

3. 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.

4. 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.

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

Distance	Time
24 miles	2 hours

Scan Me

☐ **A.** 10
☐ **B.** 12
☐ **C.** 26
☐ **D.** 14

6. 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.

7. 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)

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

Distance	Time
75 miles	5 hours

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

9. 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)

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. 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.

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

Distance	Time
30 miles	5 hours

☐ **A.** 8
☐ **B.** 6
☐ **C.** 35
☐ **D.** 4