Errata for Math Mammoth Grade 7, 2025 edition

Grade 7-A Worktext

Chapter 2

Multiplying Integers 2 (p. 72)

#7. The last word “negative” should be “positive”. It should read:
Give your own justification for the fact that a *negative times a negative equals a positive*.

(Error noted September 23, 2025)

Chapter 3

Constant Speed (p. 111)

#14. This question states:
"Your normal walking speed is 6 miles per hour. One day you walk slowly, at 3 miles per hour".

Since this is too fast for regular walking, the speed was changed to 4 miles per hour, and the slow walking to 2 mph. The answer was changed accordingly, to this:

14. No, you cannot. Essentially, going half of the distance at half of your normal speed takes you the exact same time as going the whole distance at your normal speed, so then it is not possible to make up for the lost time.

    Let’s say that it is ten miles from your home to the pool.
    The first half takes you t = 5 mi/(3 mi/h) = 5/3 h = 1 h 40 min.
    The second half takes you t = 5 mi/(12 mi/h) = 5/12 h = 25 min.

    Jogging with your normal speed, the trip would have taken t = 10 mi/(6 mi/h) = 5/3 mi/h = 1 h 40 min.

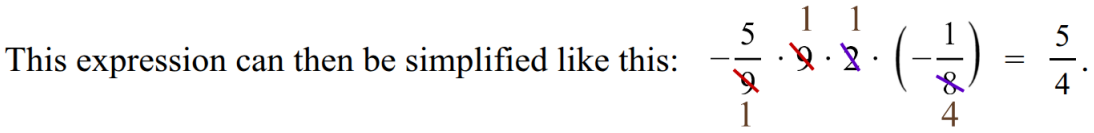
(Error noted in September 2026)

Chapter 4

Multiply and Divide Rational Numbers 1

Example 2, last line, says "This expression can then be simplified like this..." but it then gives an identical equation with no simplifying.

The image used there was lacking the actual simplification. Corrected, it looks like this:



$$-\frac{5}{9} \cdot \frac{1}{9} \cdot \frac{1}{2} \cdot \left(-\frac{1}{8}\right) = \frac{5}{4}.$$

(Error noted October 15, 2025)

Chapter 5

Two-Step Equations, Part 1 (p. 172)

The first teaching box, Example 1. The first sentence reads:
“On the side of the unknown (left), there is a multiplication by 2 and an addition of 3.”
The 2 and the 3 should be switched so it reads:
“On the side of the unknown (left), there is a multiplication by 3 and an addition of 2.”

(Error noted October 22, 2025)

Equations with Fractions, Part 1 (p. 199)

#7, the first equation, for letter A. Instead of $3(1 - x) = 6/5$, the equation should be $3(x - 1) = 6/5$.
(The x and the 1 should be switched.)

(Error noted October 2, 2025)

Grade 7-B Worktext

Chapter 6

Unit Rates (p. 21)

#6b had the conversion factor between pounds and kilograms “flipped”. It should say (1 kg = 2.2 lb).

Grade 7-A Answer Key

Chapter 2

Subtraction of Integers (student worktext p. 57)

#4. c. The final answer should be −8 instead of −7.

(Error noted September 12, 2025)

Distance Between Numbers (student worktext p. 64)

#9. The answer for the question about the smallest difference between the average high and average low temperatures was missing.

Which month has the smallest difference between the average high and average low temperatures? July

(Error noted September, 2026)

Chapter 3

Constant Speed (student worktext p. 109)

#9. b. The intermediate answer of 1.917 hours should have more decimal digits, as 1.9167 or 1.91667, so that the final answer is correct after rounding. The correcter answer reads:

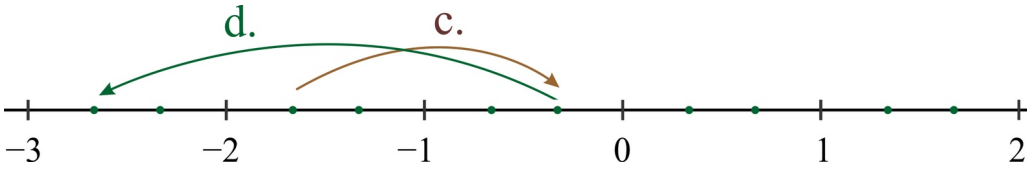
b. His average speed coming back was 78.3 kilometers per hour.
It took him 1 h 55 min = 1 55/60 h ≈ 1.91667 h to get there. His average speed was $v = d/t$
= 150 km/1.91667 h ≈ 78.3 km/h.
Or, you can do it in a single calculation: $v = d/t$ = 150 km/(1 h + 55/60 h) ≈ 78.3 km/h.

(Error noted September 28, 2026)

Chapter 4

Adding Rational Numbers (student worktext p. 130)

#5d The green arrow shows a subtraction of 8/3, but the equation given is supposed to only subtract 7/3, thus landing at one dot too far. Here is the corrected image:



(Error noted October 15, 2025)

Multiply and Divide Rational Numbers 1 (student worktext p. 140)

#7b. Was: 8.1 ÷ 9 = 0.9
Should be: 8.1 ÷ (−9) = −0.9

Puzzle corner - the solution is missing from the answer key. This is the solution:

Puzzle corner. $\dfrac{(-2)^3}{5} + \dfrac{3}{4} \div \left(\dfrac{3}{4} \cdot \dfrac{10}{18}\right) = \dfrac{-8}{5} + \dfrac{3}{4} \div \dfrac{5}{12} = -\dfrac{8}{5} + \dfrac{9}{5} = \mathbf{\dfrac{1}{5}}$

(Errors noted October 15, 2025)

Calculations with Rational Numbers (student worktext p. 146)

#4b is (3/5) ÷ 4 but the answer key was using (3/5) ÷ 0.04. This is the corrected answer:

b. (3/5) ÷ 4 = 3/20
There was 3/5 of a cake left. Four people shared that remaining piece equally.
Each got 3/20 of the original cake.

(Error noted in September 2026)

More Practice with Calculations (student worktext p. 149)

#1b gives the final answer as −1 19/60. Should be −1 29/60.

(Error noted in September 2026)

Problems to Solve (student worktext p. 153)

#6a gives the final answer as positive 5,700. Should be −5,700.

(Error noted in September 2026)

Equations with Decimals (student worktext p. 160)

#2d Directions say to round to three decimal digits/places, but the answer key gives 0.8075 unrounded. The correctly rounded answer is 0.808.

(Error noted in September 2026)

Chapter 4 Review (student worktext p. 166)

#13d The decimal answer is given as positive $0.291\overline{6}$. It should be $-0.291\overline{6}$.

(Error noted in September 2026)

Chapter 5

Using the Distributive Property (student worktext p. 186)

#1e The worktext has this equation: 300 = 20(s − 12) + 15s but the answer key solves for 355 = 20(s − 12) + 15s. The equation in the worktext was changed to 355 = 20(s − 12) + 15s. The solution to the equation 300 = 20(s − 12) + 15s is below:

300 = 20(s − 12) + 15s

300 = 20s − 240 + 15s

300 = −240 + 35s

540 = 35s

s = 540/35 = 108/7 ≈ 15.43

#2c The worktext displays the problem "0.98 = 3(x − 0.07) + 0.9x" while the key solves for "0.98 = 3(x − 0.07)". Here is the solution to the equation in the worktext:

c. $0.98 = 3(x - 0.07) + 0.9x$

$0.98 = 3x - 0.21 + 0.9x$

$0.98 = 3.9x - 0.21$ | **+ 0.21**

$1.19 = 3.9x$ | **÷ 3.9**

$x \approx \mathbf{0.305}$

Check:

$0.98 \stackrel{?}{=} 3(0.305 - 0.07) + 0.9(0.305)$

$0.98 \stackrel{?}{=} 3(0.235) + 0.2745$

$0.98 \approx 0.9795$ ✓

(Errors noted in September 2026)

Grade 7-B Answer Key

Chapter 6

Proportional Relationship or Not? (student worktext p. 34)

#3 The table has the variables *d* and *t* swapped. Here is the corrected table:

d	15	19	23	27	31
t	0	1	2	3	4

(Error noted in September 2026)

Scale Drawings 1 (student worktext p. 51)

#2b The calculation uses 2.5 cm instead of 3.5 cm. Here is the corrected answer:

In reality, its dimensions are 2000 · 3.5 cm = 7,000 cm = 70 m and 2000 · 1.9 cm = 3,800 cm = 38 m.
Its area will be 70 m · 38 m = 2,660 m^2.

(Error noted October 1, 2026)

Maps (student worktext p. 65)

#8 Provides both 16.7 cm and 17 cm as answers (rounded in different manners). Both should be the same (16.7 cm).

(Error noted in September 2026)

Chapter 7

Percentage of Change: Applications (student worktext p. 99)

#8d States: "If the side of the square measures 20 cm at first, after the increase, the side measures 22.3 cm." The 22.3 cm should be 23 cm.

(Error noted in September 2026)

Chapter 7 Mixed Review (student worktext p. 108)

#4b states: "4. b. says "For example, substituting the values x = 10 and y = 5, the first expression becomes 10− 5, and the second one becomes 5− 10." This should be:

b. No, the expressions are not equal. For example, substituting the values $x = 10$ and $y = 5$, the first expression becomes $10 - 10$, and the second one becomes $5 - 20$.

(Error noted in September 2026)

Chapter 8

Problems Involving Circles (student worktext p. 134)

#7 The figure “520” in this sentence should be 220 (a typo). The calculation is correct.

Since they are sold in packages of 20, we will use 520 tiles in the calculation:
220 tiles / (20 tiles/package) = 11 packages.

(Error noted in September 2026)

Chapter 8 Mixed Review (student worktext p. 184)

#15 The answer key is referring to the years 2013 and 2014, but the lesson has the years 2022 and 2023. Here is the corrected answer:

In 2023, the total revenue was $135,000 − $3,500 = $131,500. The revenue that came from the property tax in 2022 was 0.41 · $135,000 = $55,350. In 2023 this fell to 55,350 − $2,100 = $53,250. In 2023, the county got $53,250/$131,500 = 0.40494 ≈ 40.5% of its revenue from property tax.

(Error noted in September 2026)

Chapter 10

Comparing Two Populations (student worktext p. 184)

5. d was missing an answer. Parts (a) and (c) were revised as follows:

a. Class B did better overall, because the distribution is more concentrated towards the right. The variability in the grades seems similar for both classes, because both have the same range, the distributions overlap completely, and both distributions are close to bell-shaped.

c. The difference in the means (0.444) = about 1/2 time(s) the MAD.

d. Answers will vary; check the student's answer. For example: Yes, the numbers support the observations from the graph.

Since the difference in the means is only about 0.5 times the MAD, we cannot say that class B did significantly better than class A. That matches what we see in the graphs, because from the graphs we can tell that class B did better but only slightly. The MADs were nearly identical, indicating the variability is about the same for both classes, and that is also visible in the graphs.

(Error noted in September 2026)

Tests Answer Key

Chapter 6 Test

#1 The test specifies 21 km in 1 1/2 hours, but the answer key uses 20 km. Here is the corrected answer.

Chloe's speed = (21 km) / (1 1/2 h) = (21 km) / (3/2 h) = 21 · 2/3 km/h = 14 km/h

(Error noted in September 2026)

Cumulative Reviews Answer Key

Cumulative Review Chapters 1-5

#12 b The answer was given with six decima1 digits, but the worksheet said to round to five. The correctly rounded answer is 0.29286.

(Error noted in September 2026)

Cumulative Review Chapters 1-7

#2. The worksheets says the base salary is $220 per week, but the answer key is using $200. Here is the corrected answer:

2. Let n be the number sales in a week. I will earn $220 + 75n$, and if I want to earn at least $800, the inequality is:

$$\begin{aligned} 220 + 75n &\geq 800 \\ 75n &\geq 580 \\ n &\geq 7.73 \end{aligned}$$

I need to sell at least 8 paintings in order to earn at least $800 in a week.