

Errata for Math Mammoth Grade 8, 2023 edition

Grade 8-A Student Book

Chapter 1

Significant Digits (p. 37)

#1. Instead of grams, the quantities should be in kilograms: 0.506 kg or 0.5060 kg.

(Error noted July 7, 2025)

Chapter 2

Volume of Prisms and Cylinders (p. 107)

#4b. The conversion factor given is wrong. (One gallon = 0.16054 cubic feet.)

The correct one is this: One gallon = 0.13368 cubic feet.

(Error noted July 7, 2026)

Grade 8-A Answer Key

Chapter 2

Volume of Prisms and Cylinders (student worktext p. 108)

#4. a. The final calculation of the volume uses 108.6 ft^3 instead of 117.8 ft^3 . The last line should be:

$$117.8 \text{ ft}^3 + 502.7 \text{ ft}^3 + 502.7 \text{ ft}^3 = 1,123.2 \text{ ft}^3.$$

#4. b. is also partially incorrect because it is using the wrong value from (a). It also used the wrong conversion factor between cubic feet and gallons. The correct answer is:

b. In gallons, the tanks contain $1,123 \text{ ft}^3 \div (0.13368 \text{ ft}^3/\text{gal}) \approx 8402.15$ gallons. This amount provides water for the family for $8402.15 \text{ gal} \div (120 \text{ gal/day}) \approx 70$ days.

(Error noted Jan 13, 2024, and another, July 7, 2026)

Chapter 3

Word Problems (student worktext p. 147)

The answer to question #2 was using 36 cm instead of 136 cm as listed in the lesson.

Here is the corrected solution.

Let x be the width of the rectangle. Then, its length is $x + 12$. We get the equation $x + x + 12 + x + x + 12 = 136$.

This simplifies to $4x + 24 = 136$, from which $x = 28$. So, the width of the rectangle is 28 cm and its length is 40 cm.

(It is also possible that the student will choose x to be the length of the rectangle. The width will then be $x - 12$. The final answer will be the same.)

(Error noted Nov 10, 2023)

More on Equations (student worktext p. 154)

#9b, last line should be: $q = -4/3 = -1 \frac{1}{3}$

(Error noted Jan 13, 2024)

Grade 8-B Student Book

Chapter 7

Solving Systems of Equations by Substitution (p. 136)

6. b. The top equation was $4x - 5y = 12$. Should be: $4x - 5y = 13$.

Tests Answer Key

Chapter 1 Test

2. g. The answer given is $x^{10}/32$. It should be $-x^{10}/32$.

(Error noted Apr 14, 2026)

End-of-Year Test Answer Key

2. f. The answer given is $1/(4v^2)$. It should be $1/(16v^2)$.

(Error noted Dec 1, 2025)
