

Errata for Math Mammoth Grade 8, 2023 edition

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 should be:

b. In gallons, the tanks contain $1,123 \text{ ft}^3 \div (0.16054 \text{ ft}^3/\text{gal}) \approx 6995.14$ gallons. This amount provides water for the family for $6995.14 \text{ gal} \div (120 \text{ gal/day}) \approx 58$ days.

(Error noted Jan 13, 2024)

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)
