## Example 1 (base prompt, GPT-4-V, correct)

Type of question: Multiple choice

by 21, gives us the fraction  $\frac{2}{7}$ .

gives us 2. That number is  $2 \times 3 = 6$ .

divided by 14.

To find the value of x, we will use the formula for the volume of a rectangular box, which is:

Example 3 (prompt variant 1, GPT4-V, correct) Type of Question: [Free Text Response] This is a free-text response question.

4. Based on this reasoning, I would select [A] 27.4 as the best answer.

the correct answer. [D] 28.2 is the furthest away from 27, so it is the least likely to be the correct answer.

3. Next, I look at the answer choices. [A] 27.4 is the closest to 27, so it is a possibility. [B] 27.8 is also close, but it is further away from 27 than [A] 27.4.

2. First, I notice that the number line is labeled from 26 to 28. This means that the value of K must be between 26 and 28.

Example 2 (base prompt, Gemini-Vision-Pro, incorrect) 1. This is a multiple-choice question.

Therefore, the value of the square that makes the fractions equivalent is 6. Answer: [A] 6 Answer: - For multiple-choice: [A] 6

[C] 27.9 is even further away from 27 than [B] 27.8, so it is unlikely to be

To find the value of the square that makes the fractions equivalent, we need to find a number that, when divided by 21, gives the same value as 4

To simplify the fraction  $\frac{4}{14}$ , we divide both the numerator and the denomi-

Now, we need to find a number that, when placed in the square and divided

Since  $21 = 7 \times 3$ , we need to find a number that, when multiplied by  $\frac{1}{2}$ ,

nator by their greatest common divisor, which is 2. This gives us  $\frac{2}{7}$ .

is 4 cm. We can set up the equation as follows:

 $200 = x \times 5 \times 4$ 

Volume = length  $\times$  width  $\times$  height The volume of the box is given as 200 cm<sup>3</sup>, the width is 5 cm, and the height

To solve for x, we divide both sides of the equation by  $5 \times 4$ :

 $x = \frac{200}{5 \times 4}$  $x = \frac{200}{20}$  $x = 10 \,\mathrm{cm}$ 

Answer:  $x = 10 \, \text{cm}$