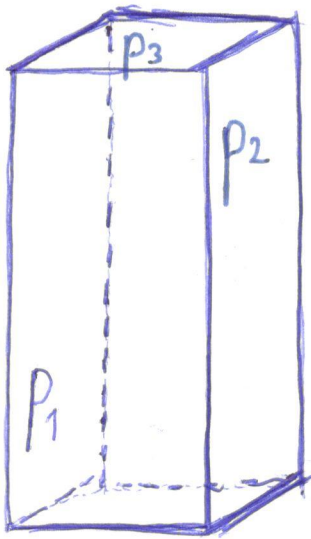


Zad. 15



$$P_6 = 2p_1 + 2p_2 + 2p_3 = 50,5$$

$$P_5 = 2p_1 + 2p_2 + p_3 = 45,25$$

$$p_3 = P_6 - P_5 = 5,25$$

$$p_3 = 5,25$$

$$2p_1 + 2p_2 + p_3 = 45,25$$

$$P_4 = 31,25$$

$$2p_1 + 2p_2 = 40$$

Jezeli zatem (A)

$$P_4 = 2p_1 + p_2 + p_3$$

$$P_4 \neq 2p_1 + 2p_2$$

$$P_4 \neq 40$$

$$P_5 - P_4 = 45,25 - 31,25$$

$$P_5 - P_4 = 14$$

$$P_5 - P_4 = \cancel{2p_1} + 2p_2 + \cancel{p_3} - \cancel{2p_1} - p_2 - \cancel{p_3} = p_2$$

$$p_2 = 14$$

$$p_1 = \frac{P_6 - 2p_2 - 2p_3}{2}$$

$$p_1 = \frac{50,5 - 28 - 10,5}{2}$$

$$p_1 = 6$$

Ad. Zad. 15

(B)

Jżeli jednak $P_4 = 2p_1 + 2p_3$

$$\text{to } P_6 - P_4 = 2p_1 + 2p_2 + 2p_3 - 2p_1 - 2p_3 = 19,25$$

$$2p_2 = 19,25$$

$$p_2 = 9,625$$

$$p_1 = \frac{P_6 - 2p_2 - 2p_3}{2}$$

$$p_1 = \frac{50,5 - 2 \cdot 9,625 - 2 \cdot 5,25}{2}$$

$$p_1 = 10,375$$

Wariant A

$$p_1 = 6$$

$$p_2 = 14$$

$$p_3 = 5,25$$

Sprawdzenie:

$$P_6 = 2p_1 + 2p_2 + 2p_3 = 50,5$$

$$P_5 = 2p_1 + 2p_2 + p_3 = 45,25$$

$$! P_4 = 2p_1 + p_2 + p_3 = 31,25$$

Wariant B

$$p_1 = 10,375$$

$$p_2 = 9,625$$

$$p_3 = 5,25$$

$$P_6 = 2p_1 + 2p_2 + 2p_3 = 50,5$$

$$P_5 = 2p_1 + 2p_2 + p_3 = 45,25$$

$$! P_4 = 2p_1 + 2p_3 = 31,25$$

Ad. Zad. 15

Wariant A

$$p_1 = 6$$

$$p_2 = 14 \quad (\text{MAX})$$

$$p_3 = 5,25 \quad (\text{MIN})$$

$$\frac{\text{MIN}}{\text{MAX}} \cdot 100\% = \frac{5,25}{14} \cdot 100\%$$

$$\frac{\text{MIN}}{\text{MAX}} = 37,5\%$$

Wariant B

$$p_1 = 10,375 \quad (\text{MAX})$$

$$p_2 = 9,625$$

$$p_3 = 5,25 \quad (\text{MIN})$$

$$\frac{\text{MIN}}{\text{MAX}} \cdot 100\% = \frac{5,25}{10,375} \cdot 100\%$$

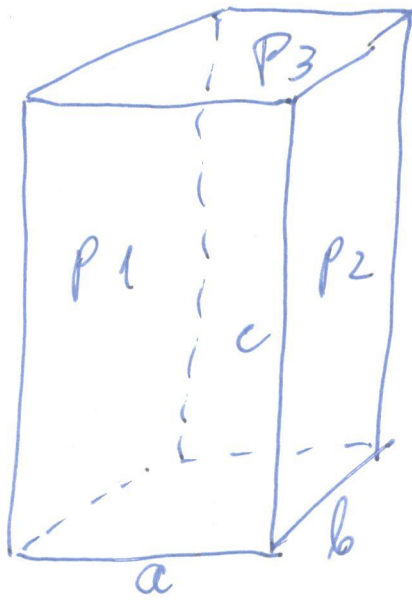
$$\frac{\text{MIN}}{\text{MAX}} = 50,6\%$$

Dostępne odpowiedzi do zad. 15

A. 27,5% B. 67,5% C. 37,5% D. 87,5% E. 47,5%

Zadanie ma 2 alternatywne rozwiązania.
Metodą eliminacji z dostępnych odpowiedzi
wybieramy odp. C, czyli 37,5%.

Ad. Zad. 15



$$P_3 = ab$$

$$P_1 = ac$$

$$P_2 = bc$$

$$a = \frac{P_1}{c}$$

$$b = \frac{P_2}{c}$$

$$P_3 = \frac{P_1}{c} \cdot \frac{P_2}{c}$$

$$c^2 = \frac{P_1 P_2}{P_3}$$

$$c = \sqrt{\frac{P_1 P_2}{P_3}}$$

$$a = \sqrt{\frac{P_1 P_3}{P_2}}$$

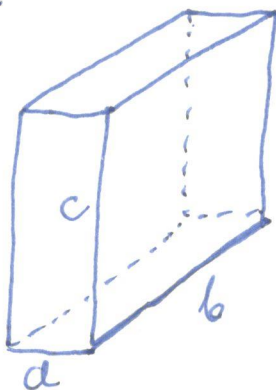
$$b = \sqrt{\frac{P_2 P_3}{P_1}}$$

VARIANT A

$$a = 1,5$$

$$b = 3,5$$

$$c = 4$$



VARIANT B

$$a = 2,379$$

$$b = 2,207$$

$$c = 4,361$$

