

Egzamin próbny 2020r.

1. FP

2. D

3. B

4. FP

5. A

6. D

7. D

8. PP

9. C

10. C

11. PP

12. BD

13. C

14. PF

15. C

zad. 16 (0-2p)

$$8 - 3,20 = 4,80$$

$$3,20 - 2,40 = 0,80$$

$$4,8 : 0,8 = 6 \text{ km}$$

x-dł. trasy

$$3,2 + 3,2x = 8 + 2,4x$$

$$3,2x - 2,4x = 8 - 3,2$$

$$0,8x = 4,8 \quad | :0,8$$

$$x = 6 \text{ km}$$

zad. 17. (0-2p)

$$40 \text{ dag} = 0,4 \text{ kg}$$

$$0,4 \cdot 12 = 4,80 \text{ zł}$$

$$60 \text{ dag} = 0,6 \text{ kg}$$

$$0,6 \cdot 17 = 10,20$$

$$4,80 + 10,20 = 15,2 \text{ zł}$$

zad. 18 (0-2p)

$$2x - 15 + x + 5 + \frac{1}{2}x + 15 + \frac{3}{2}x - 5 = 100$$

$$5x = 100 \quad | :5$$

$$x = 20$$

$$2x - 15 = 40 - 15 = 25$$

$$x + 5 = 20 + 5 = 25$$

$$\frac{1}{2}x + 15 = \frac{1}{2} \cdot 20 + 15 = 25$$

$$\frac{3}{2}x - 5 = \frac{3}{2} \cdot 20 - 5 = 25$$

Odpr. długości boków czworokąta są równe, zatem jest rombem

zad. 19.

$$v = \frac{s}{t} \quad | \cdot t \quad v \cdot t = s \quad | : v \quad t = \frac{s}{v}$$

$$v_1 = \frac{90}{115} = \cancel{90}^6 \cdot \frac{10}{15} = 60 \frac{\text{km}}{\text{h}}$$

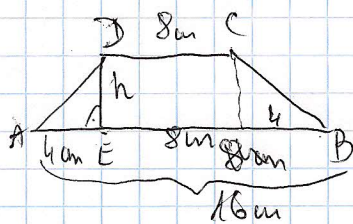
$$t = 1\frac{1}{2} - \frac{1}{4} = 1\frac{1}{4} \text{ h}$$

$$15 \text{ min} = \frac{1}{4} \text{ h}$$

$$v_2 = \frac{90}{1\frac{1}{4}} = \cancel{90}^{18} \cdot \frac{4}{5} = 72 \frac{\text{km}}{\text{h}}$$

$$72 - 60 = 12 \frac{\text{km}}{\text{h}}$$

zad. 20.



$$P = 72 \text{ cm}^2$$

$$P = \frac{(a+b) \cdot h}{2}$$

$$72 = \frac{(16+8) \cdot h}{2}$$

$$72 = \frac{24}{2} \cdot h$$

$$72 = 12 \cdot h \quad | : 12$$

$$h = 6$$

$$P = \frac{4 \cdot 6}{2} = \frac{24 \text{ cm}^2}{2} = 12 \text{ cm}^2$$

zad. 21.

$$V_p = 16 \cdot 24 \cdot 2,5 = 960 \text{ cm}^3$$

$$V_{c_1} = 2 \cdot 2 \cdot 1,5 = 6 \text{ cm}^3$$

$$V_{c_2} = 32 \cdot 6 = 192 \text{ cm}^3$$

$$960 - 100\%$$

$$192 - x$$

$$x = \frac{192 \cdot 100}{960} = 20\%$$