

ARKUSZ 9

31p

- | | | |
|-------|-------|--------|
| 1. BC | 6. FF | 11. FP |
| 2. C | 7. A | 12. AC |
| 3. B | 8. FP | 13. NB |
| 4. C | 9. C | 14. B |
| 5. D | 10. B | 15. FP |

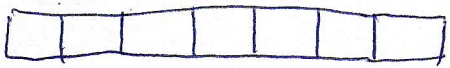
zad. 16. (0-2)

a, b - Janek
 b, a - Martyna
 10a + b - Janek
 10b + a - Martyna

$10a + b - (10b + a) = 10a + b - 10b - a =$
 $= 9a - 9b = 9(a - b)$

liczba jest podzielna przez 9.
 c.n.u.

zad. 17. (0-2)



48 cm : 2 = 24 cm
 24 cm : 8 = 3 cm - bok kwadratu
 $P = 3 \cdot 7 = 63 \text{ cm}^2$

zad. 18. (0-3)

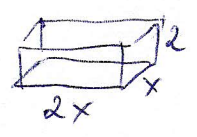
3/5 - Szw
 0,8 l - x

$x = \frac{0,8 \cdot 5}{3} = \frac{4}{3} \text{ l}$

$\frac{4}{3} + 0,8 = \frac{4}{3} + \frac{4}{5} = \frac{20}{15} + \frac{12}{15} = \frac{32}{15} = 2\frac{2}{15} = 2 \text{ kg}$

1600 : $2\frac{2}{15} = 1600 \cdot \frac{15}{32} = 750 \text{ kg}$

zad. 19. (0-3)



20 cm = 2 dm
 $1 \text{ dm}^3 = 1 \text{ l}$
 $64 \text{ l} = 64 \text{ dm}^3$

$2x \cdot x \cdot 2 = 64$
 $4x^2 = 64 /:4$
 $x^2 = 16 \sqrt{\quad}$
 $x = 4$

$x = 4 \text{ dm} - \text{I bok}$
 $2 \cdot x = 8 \text{ dm} - \text{II bok}$
 $4 \text{ dm} \times 8 \text{ dm} - \text{III bok}$

zad. 20 (0-3)

x - piłka do tenisa stołowego
 $x + 7,50$ - piłka do tenisa ziemnego

$2 \cdot x + 4(x + 7,5) = 51$
 $2x + 4x + 30 = 51$
 $6x = 21 /:6$
 $x = 3,5$ - tenis stołowy
 $3,5 + 7,50 = 11 \text{ zł}$ - tenis ziemny

zad. 21 (0-3)

$P_{\triangle ABC} = \frac{6 \cdot 9}{2} = 27 \text{ cm}^2$

$P_{\triangle ABD} = 27 : 1,5 = 27 \cdot \frac{10}{15} = 18 \text{ cm}^2$

$P = \frac{a \cdot h}{2}$
 $18 = \frac{6 \cdot h}{2} / \cdot 2$
 $36 = 6 \cdot h /:6$
 $h = 6 \text{ cm}$