

1. naloga

šolska goba = kvader

$$a = 1 \text{ dm} = 10 \text{ cm}$$

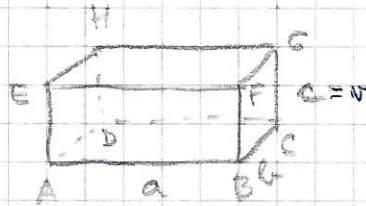
$$b = 5 \text{ cm}$$

$$c = 5 \text{ cm}$$

$$S = 50 \text{ cm}^2$$

$$V = 250 \text{ cm}^3$$

šolska goba ima obliko kvadra.



$$S = a \cdot b$$

$$S = 10 \cdot 5$$

$$S = 50 \text{ cm}^2$$

$$V = S \cdot v$$

$$V = 50 \cdot 5$$

$$V = 250 \text{ cm}^3$$

2. naloga

kočka

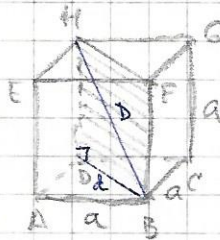
$$a = 20 \text{ cm} = 2 \text{ dm}$$

$$P = 24 \text{ dm}^2$$

$$V = 8 \text{ dm}^3$$

$$D = 2\sqrt{3} \text{ dm} = 3,46 \text{ dm}$$

$$* \text{diag. preseka} = 5,64 \text{ dm}^2$$



$$P = 2 \cdot S + pl$$

$$P = 2a^2 + 4a^2$$

$$P = 6a^2$$

$$P = 6 \cdot 2^2$$

$$P = 6 \cdot 4$$

$$P = 24 \text{ dm}^2$$

$$V = S \cdot v$$

$$V = a^2 \cdot a$$

$$V = a^3$$

$$V = 2^3$$

$$V = 8 \text{ dm}^3$$

$$D^2 = a^2 + d^2$$

$$D^2 = a^2 + a^2 + a^2$$

$$D^2 = 3a^2 \Rightarrow D = a\sqrt{3}$$

$$D^2 = 3 \cdot 2^2$$

$$D^2 = 12$$

$$D = \sqrt{12}$$

$$D = 2\sqrt{3} \text{ dm}$$

$$D = 2 \cdot 1,73$$

$$D = 3,46 \text{ dm}$$

$$\text{diag. preseka} = d \cdot a$$

$$\text{diag. preseka} = a \cdot \sqrt{2} \cdot a$$

$$\text{diag. preseka} = 4 \cdot \sqrt{2} = 4 \cdot 1,41 = 5,64 \text{ dm}^2$$

3. naloga

Prizma: C, D, E, F

Piramida: A, B

Pravilna prizma: D, E, F

Kvader: C, E

Kočka: E

Pravilna piramida: A

4. naloga

Izpolni tabelo.

TELO	število ploskev		število robov		število oglišč
	vseh	osnovnih	vseh	osnovnih	
4-strana prizma	6	2	12	8	8
6-strana prizma	8	2	18	12	12

5. naloga

športna dvorana

kvader

$$a = 50 \text{ m}$$

$$b = 30 \text{ m}$$

$$c = 8 \text{ m}$$

$$pl = 1280 \text{ m}^2$$

$$S = 1500 \text{ m}^2$$



$$pl = 2 \cdot b \cdot c + 2 \cdot a \cdot c$$

$$pl = 2 \cdot 30 \cdot 8 + 2 \cdot 50 \cdot 8$$

$$pl = 480 + 800$$

$$pl = 1280 \text{ m}^2$$

$$S = a \cdot b$$

$$S = 50 \cdot 30$$

$$S = 1500 \text{ m}^2$$

$$1500 \cdot 15 = 22500 \text{ €}$$

✓ tej dvorani moramo preplesti 1280 m² sten. Za parket bodo plačali 22500 €.

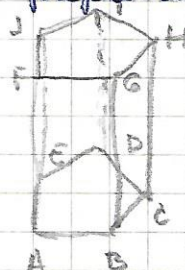
6. naloga

pravilna 5-strana prizma

$$a = 5 \text{ dm}$$

$$v = 2 \cdot a = 2 \cdot 5 = 10 \text{ dm}$$

$$pl = 250 \text{ dm}^2$$



$$pl = 5 \cdot a \cdot v$$

$$pl = 5 \cdot 5 \cdot 10$$

$$pl = 250 \text{ dm}^2$$

7. naloga

okrasni lonček - samo eno

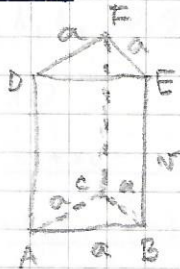
pravilna 3-str. prizma

$$a = 16 \text{ cm}$$

$$n = 12 \text{ cm}$$

$$P = 686,72 \text{ cm}^2$$

$$V = 1,3 \text{ dm}^3 > 1 \text{ dm}^3$$



$$P_{\text{lončka}} = S + p_l$$

$$P_{\text{lončka}} = \frac{a^2 \sqrt{3}}{4} + 3av$$

$$P_{\text{lončka}} = \frac{16^2 \sqrt{3}}{4} + 3 \cdot 16 \cdot 12$$

$$P_{\text{lončka}} = \frac{256 \cdot 1,73 \cdot 64}{4 \cdot 1} + 576$$

$$P_{\text{lončka}} = 110,72 + 576$$

$$P_{\text{lončka}} = 686,72 \text{ cm}^2$$

$$V = S \cdot n$$

$$V = \frac{a^2 \sqrt{3}}{4} \cdot n$$

$$V = \frac{16^2 \sqrt{3}}{4} \cdot 12$$

$$V = \frac{256 \cdot 1,73 \cdot 12 \cdot 64}{4 \cdot 1}$$

$$V = 1328,6 \text{ cm}^3$$

$$V = 1,3 \text{ dm}^3$$

Lonček za nože lahko stresemo 1 dm^3 zemlje.

8. naloga

pravilna 6-str. prizma

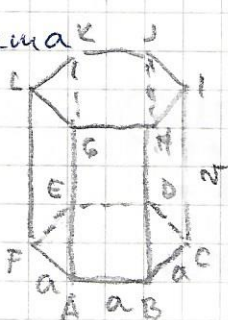
$$a = 6 \text{ cm}$$

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

$$P = 258,84 \text{ cm}^2$$

$$V = 186,84 \text{ cm}^3$$

$$n = 2 \text{ cm}$$



$$p_l = 6 \cdot a \cdot n$$

$$72 = 6 \cdot 6 \cdot n$$

$$72 = 36 \cdot n$$

$$n = 72 : 36$$

$$n = 2 \text{ cm}$$

$$P = 2S + p_l$$

$$P = 2 \cdot \frac{6a^2 \sqrt{3}}{4} + 72$$

$$P = \frac{2 \cdot 6 \cdot 6^2 \sqrt{3} \cdot 3}{4 \cdot 2 \cdot 1} + 72$$

$$P = 108 \cdot \sqrt{3} + 72$$

$$P = 186,84 + 72$$

$$P = 258,84 \text{ cm}^2$$

$$V = S \cdot n$$

$$V = \frac{6 \cdot a^2 \sqrt{3}}{4} \cdot n$$

$$V = \frac{6 \cdot 36 \cdot \sqrt{3} \cdot 2 \cdot 9}{4 \cdot 1}$$

$$V = 186,84 \text{ cm}^3$$

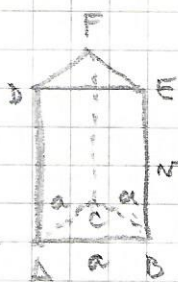
9. naloga

pravilna 3-str. prizma

$$a = 5 \text{ cm}$$

$$n = 10 \text{ cm}$$

$$\text{dolžina vseh robov} = 60 \text{ cm} = 6 \text{ dm}$$



$$\text{dolžina vseh robov} = 6 \cdot a + 3 \cdot n$$

$$\text{dolžina vseh robov} = 6 \cdot 5 + 3 \cdot 10$$

$$\text{dolžina vseh robov} = 30 + 30 = 60 \text{ cm}$$

Za izdelavo žičnega modela pravilne 3-str. prizme potrebujemo 6 dm oziroma 60 cm žice.

10. náloga

9 čísel: 3, 1, 5, 1, 1, 10, 9, 7, 8.

(3x)

1, 1, 1, 3, 5, 7, 8, 9, 10

$$M_o = 1$$

$$\bar{x} = \frac{x_1 + x_2 + \dots + x_9}{9}$$

$$M_e = 5$$

$$\bar{x} = \frac{1+1+1+3+5+7+8+9+10}{9}$$

$$\bar{x} = 5$$

$$\bar{x} = \frac{45}{9} = \underline{\underline{5}}$$

11. náloga

a) za step

ⓐ 35% od $x = 7$

ⓑ $\frac{1}{4} = \frac{25}{100} = \underline{\underline{25\%}}$

b) za sambo

$$x = 7 : \frac{35}{100}$$

c) 20 učencov

ⓓ $15\% + 5\% + 35\% + 15\% = 80\%$

$$x = \frac{100 \cdot 20}{1 \cdot 35 \cdot 8 \cdot 1}$$

d) 4 učenici

$$x = \underline{\underline{20}}$$

$$100\% - 80\% = 20\%$$

$$20\% \text{ od } 20 = \frac{20}{100} \cdot \frac{20}{1} =$$

$$= \frac{20 \cdot 20}{100} = \underline{\underline{4}}$$