3. teden - 4 ura

ZN 2/ str. 137 / nal. 2a

PRAVILNA 4-strana PIRAMIDA

$a = 7\,dm$

$v = 12\,dm$

$V = 196\,dm^3$

$O = 49\,dm^2$

$V = \frac{O \cdot v}{3}$

$V = \frac{49 \cdot 12 \cdot 4}{3 \cdot 1}$

$V = 196\,dm^3$

$O = a^2$

$O = 7^2$

$O = 49\,dm^2$

ZN 2/ str. 137 / nal. 2b

PRAVILNA 3-STRANA PIRAMIDA

$a = 7\,dm$

$v = 12\,dm$

$V = 49\sqrt{3}\,dm^3$

$O = 12{,}25\sqrt{3}\,dm^2$

$V = \frac{O \cdot v}{3}$

$V = \frac{12{,}25 \cdot \sqrt{3} \cdot 12 \cdot 4}{3 \cdot 1}$

$V = 49\sqrt{3}\,dm^3$

$O = \frac{a^2\sqrt{3}}{4}$

$O = \frac{7^2\sqrt{3}}{4}$

$O = \frac{49\sqrt{3}}{4}$

$O = 12{,}25\sqrt{3}$

49 : 4 = 12,25
= 9
10
20

ZN 2/ str. 142/ nal. 31

PRAVILNA 3-STRANA PIRAMIDA

$a = 20\,cm$

$v_1 = 4{,}2\,dm = 42\,cm$

$P = (100\sqrt{3} + 1260)\,cm^2$

$O = 100\sqrt{3}\,cm^2$

$P = O + pl$

$P = (100\sqrt{3} + 1260)\,cm^2$

$P = 20(5\sqrt{3} + 63)\,cm^2$

$O = \frac{a^2\sqrt{3}}{4}$

$O = \frac{400\sqrt{3} \cdot 100}{4 \cdot 1}$

$O = 100\sqrt{3}\,cm^2$

$pl = 3 \cdot \frac{a \cdot v_1}{2}$

$pl = \frac{3 \cdot 20 \cdot 42 \cdot 10}{2 \cdot 1}$

$pl = 1260\,cm^2$

420 · 3
1260

1260 : 20 = 63
60

Rešitve:

3 teden : 4-ura

Kocka

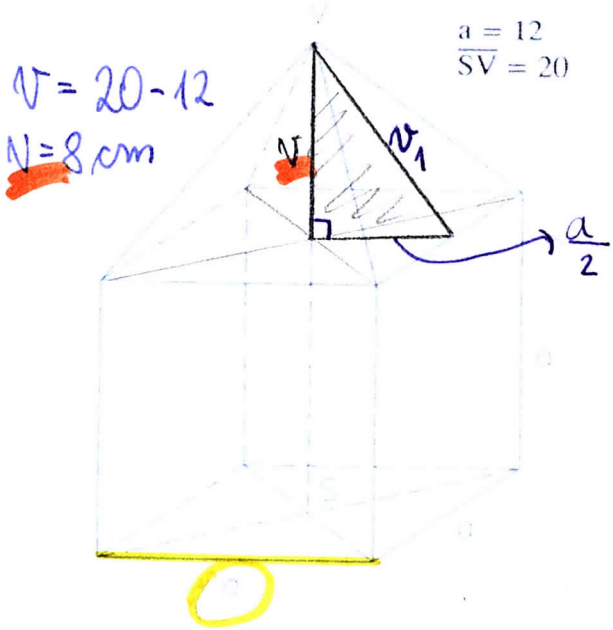
$a = 12\,cm$ (kocka nima zgornje ploskve)

P_k - površina kocke

$P_k = 5a^2$

$P_k = 5 \cdot 144$

$P_k = 720\,cm^2$



$V = 20 - 12$

$V = 8\,cm$

PIRAMIDA (na sliki je plašč piramide)

$a = 12\,cm$

$v = 8\,cm$

$v_1^2 = v^2 + \left(\frac{a}{2}\right)^2$

$v_1^2 = 8^2 + 6^2$

$v_1^2 = 64 + 36$

$v_1^2 = 100$

$v_1 = 10\,cm$

$pl = 4 \cdot \frac{a \cdot v_1}{2}$

$pl = \frac{4 \cdot 12 \cdot 10 \cdot 6}{2 \cdot 1}$

$pl = 240\,cm^2$

SKUPAJ: $720 + 240 = 960\,cm^2$

Površina telesa meri $960\,cm^2$.

PROSTORNINA:

KOCKA

$V_k = a^3$

$V_k = 12^3 = 1728\,cm^3$

PIRAMIDA

$V = \frac{O \cdot v}{3}$

$O = a^2$

$O = 12^2$

$O = 144\,cm^2$

$V = \frac{144 \cdot 8 \cdot 48}{3 \cdot 1}$

$V = 386\,cm^3$

SKUPAJ

$1728 + 386 = 2114\,cm^3$

Prostornina zgornjega telesa meri $2114\,cm^3$.