

PONAVLJANJE IN UTRJEVANJE - 9. razred

PROSTORNINI 4-STRANIH PRIZEM

BAZEN

① kvadrat

$$d = a = 25 \text{ m}$$

$$\tilde{s} = b = 16 \text{ m}$$

$$g = c = 2 \text{ m}$$

$$pl + \psi = ?$$

$$V = ?$$

$$\psi = a \cdot b \text{ ①}$$

$$\psi = 25 \cdot 16$$

$$\psi = 400 \text{ m}^2$$

$$\text{③}$$

$$pl + \psi = 164 + 400$$

$$pl + \psi = 564 \text{ m}^2$$

$$pl = (2a + 2b) \cdot c \text{ ②}$$

$$pl = (2 \cdot 25 + 2 \cdot 16) \cdot 2$$

$$pl = (50 + 32) \cdot 2$$

$$pl = 82 \cdot 2$$

$$pl = 164 \text{ m}^2$$

$$V = a \cdot b \cdot c \text{ ④}$$

$$V = 25 \cdot 16 \cdot 2$$

$$V = 50 \cdot 16$$

$$V = 800 \text{ m}^3$$

U.: Potrebujemo 564 m^2 ploščic.

U.: Potrebujemo 800 m^3 vode.

② KOCKA

$$a = 3 \text{ cm}$$

$$\rho = 0,2 \text{ g/cm}^3$$

$$m = ?$$

$$\text{②}$$

$$m = \rho \cdot V$$

$$m = 0,2 \cdot 27$$

$$m = 5,4 \text{ g}$$

①

$$V = a^3$$

$$V = 3^3$$

$$V = 27 \text{ cm}^3$$

U.: Kocka tehta $5,4 \text{ g}$.

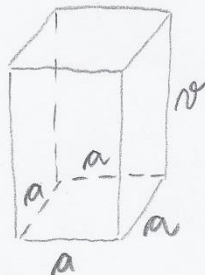
③ PRAVILNA 4-STRANA PRIZMA

$$W = 2,56 \text{ cm}^2$$

$$r = 4,5 \text{ cm}$$

$$P = ?$$

$$V = ?$$



$$\text{③}$$

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

$$P = 2 \cdot 2,56 + 28,8$$

$$P = 33,92 \text{ cm}^2$$

④

$$V = W \cdot r$$

$$V = 2,56 \cdot 4,5$$

$$V = 11,52 \text{ cm}^3$$

②

$$pl = 4ar$$

$$pl = 4 \cdot 16 \cdot 4,5$$

$$pl = 28,8 \text{ cm}^2$$

①

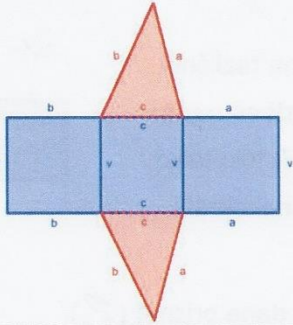
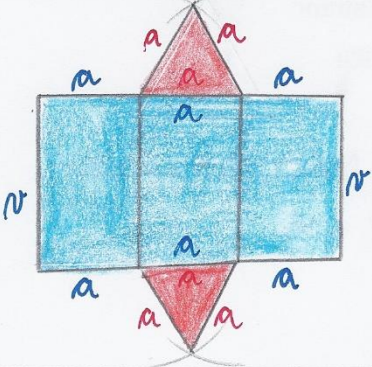
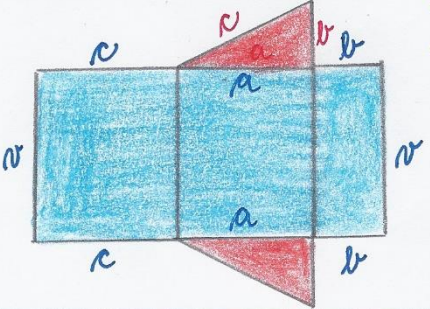
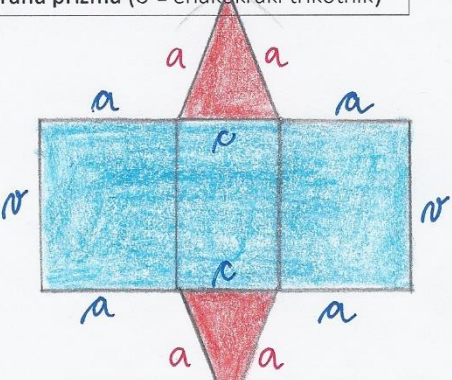
$$W = a^2$$

$$2,56 = a^2$$

$$a = \sqrt{2,56}$$

$$a = 1,6 \text{ cm}$$

PRILOGA 1

mreža telesa (skica)	$P = 2 \cdot O + pl$
<p>3-strana prizma (O - raznostranični trikotnik)</p> 	$O = \frac{a \cdot v_a}{2} = \frac{b \cdot v_b}{2} = \frac{c \cdot v_c}{2}$ $pl = (a + b + c) \cdot v$ $P = 2 \cdot \frac{a \cdot v_a}{2} + (a + b + c) \cdot v$ <p style="text-align: center;"><i>ali</i></p> $P = 2 \cdot \frac{b \cdot v_b}{2} + (a + b + c) \cdot v$ <p style="text-align: center;"><i>ali</i></p> $P = 2 \cdot \frac{c \cdot v_c}{2} + (a + b + c) \cdot v$
<p>Pravilna 3-strana prizma (O - enakostranični trikotnik)</p> 	$O = \frac{a^2 \sqrt{3}}{4}$ $pl = 3a \cdot v$ $P = 2 \cdot \frac{a^2 \sqrt{3}}{4} + 3a \cdot v$
<p>3-strana prizma (O - pravokotni trikotnik)</p>  <p style="margin-left: 200px;"> $a = k_1$ $b = k_2$ $c = h$ </p>	$O = \frac{a \cdot b}{2} = \frac{k_1 \cdot k_2}{2}$ $pl = (a + b + c) \cdot v$ $P = 2 \cdot \frac{a \cdot b}{2} + (a + b + c) \cdot v$ $pl = (k_1 + k_2 + h) \cdot v$ $P = 2 \cdot \frac{k_1 \cdot k_2}{2} + (k_1 + k_2 + h) \cdot v$
<p>3-strana prizma (O - enakokraki trikotnik)</p> 	$O = \frac{c \cdot v_c}{2} = \frac{a \cdot v_a}{2}$ $pl = (2a + c) \cdot v$ $P = 2 \cdot \frac{c \cdot v_c}{2} + (2a + c) \cdot v$ $P = 2 \cdot \frac{a \cdot v_a}{2} + (2a + c) \cdot v$