

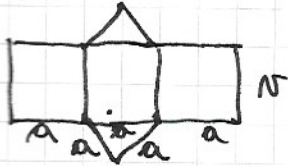
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pravilna 3-strana prizma

$a = 6 \text{ cm}$

$v = 10 \text{ cm}$

$pl = ?$



$pl = 3av$

$pl = 3 \cdot 6 \cdot 10$

$pl = 180 \text{ cm}^2$

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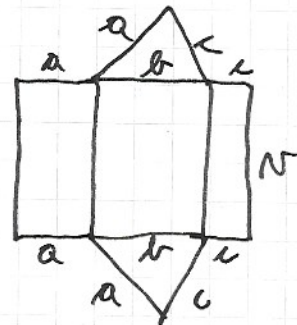
$v = 20 \text{ cm}$

$a = 6 \text{ cm}$

$b = 7 \text{ cm}$

$c = 4 \text{ cm}$

$pl = ?$



b) Pim V

ne moremo izračunati, ker nimamo podatka o višini trikotnika, da bi izračunali v

a) $pl = (a+b+c) \cdot v$

$pl = (6+7+4) \cdot 20$

$pl = 17 \cdot 20$

$pl = 340 \text{ cm}^2$

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3-strana prizma

ω - pravokotni trikotnik

$a = 3e$

$b = 4e$

$c = 5e$

$v = 10e$

$\omega, pl, P = ?$

$\omega = \frac{a \cdot b}{2} = \frac{3 \cdot 4 \cdot e^2}{2} = \frac{6 \cdot e^2}{1} = 6e^2$

$pl = (a+b+c) \cdot v$

$pl = (3+4+5) \cdot 10e^2$

$pl = 120e^2$

$P = 2 \cdot \omega + pl$

$P = 12 + 120$

$P = 132e^2$

$V = \omega \cdot v$

$V = 9\sqrt{3} \cdot 18$

$V = 162\sqrt{3} \text{ cm}^3$

$V = 280,3 \text{ cm}^3$

$P = 2 \cdot \omega + pl$

$P = 2 \cdot 9\sqrt{3} + 324$

$P = 18\sqrt{3} + 324 \text{ cm}^2$

$P = 355,14 \text{ cm}^2$

$pl = 324$

$pl = 3 \cdot 6 \cdot 18$

$pl = 324 \text{ cm}^2$

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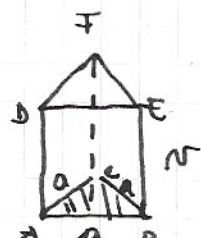
pravilna 3-strana prizma

$\omega = 9\sqrt{3} \text{ cm}^2$

$v = 18 \text{ cm}$

$P = ?$

$V = ?$



$\approx 1,73$

$P = 2 \cdot \omega + pl$

$P = 2 \cdot 9\sqrt{3} + 324$

$P = 18\sqrt{3} + 324 \text{ cm}^2$

$P = 355,14 \text{ cm}^2$

$pl = 324$

$pl = 3 \cdot 6 \cdot 18$

$pl = 324 \text{ cm}^2$

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

$4\omega = a^2 \sqrt{3}$

$a^2 \sqrt{3} = 4\omega$

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

$a^2 = \frac{4 \cdot 9\sqrt{3} \cdot 1}{\sqrt{3} \cdot 1}$

$a^2 = 36$

$a = \sqrt{36} = 6 \text{ cm}$

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Ne moreš sestaviti prizme, ker se osnovni robovi ne ujemajo

