

STR 87/2 VALJ

2. b) $r = 3,5 \text{ cm}$

$N = 0,8 \text{ dm} = 8 \text{ cm}$

$P = 80,5\pi \text{ cm}^2$

$V = 98\pi \text{ cm}^3$

$\sigma = 12,25\pi \text{ cm}^2$

$P = 2\pi r(r+v)$

$P = 2\pi \cdot 3,5(3,5+8)$

$P = 7\pi \cdot 11,5$

$P = 80,5\pi \text{ cm}^2$

$V = \sigma \cdot v$

$V = 12,25\pi \cdot 8$

$V = 98\pi \text{ cm}^3$

$\sigma = \pi r^2$

$\sigma = \pi \cdot 3,5^2$

$\sigma = 12,25\pi$

$\frac{12,25 \cdot 8}{98,00}$

$\frac{11,5 \cdot 7}{80,5}$

$\frac{3,5 \cdot 3,5}{10,5}$

$\frac{17,5}{122,5}$

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VALJ brez ene osnovne ploskve

$n = 20 \text{ cm}$

$2r = 20 \text{ cm}$

$r = 10 \text{ cm}$

$V = 6,28 \text{ cm}^3$

Površina (brez ploskve)

$\Rightarrow P_1 = 1570 \text{ cm}^2$

$P = \sigma + pl$

$P = \pi r^2 + pl$

$P = 100\pi + 400\pi$

$P = 500\pi \text{ cm}^2$

$P = 500 \cdot 3,14$

$P = 1570 \text{ cm}^2$

$pl = \sigma \cdot v$

$pl = 2\pi r \cdot v$

$pl = 2\pi \cdot 10 \cdot 20$

$pl = 400\pi \text{ cm}^2$

$\sigma = \pi r^2$

$\sigma = \pi \cdot 10^2$

$\sigma = 100\pi$

ALI:

$P = 2\pi r(r+v)$

$P = 2\pi \cdot 10(10+20)$

$P = 20\pi \cdot 30$

$P = 600\pi \text{ cm}^2$

odštejemo eno osnovno ploskvo

$\sigma = \pi r^2$

$\sigma = 100\pi$

$\frac{600\pi}{100\pi}$

$\frac{500\pi}{500\pi}$

$\frac{3,14 \cdot 2000}{6280,00}$

$V = \sigma \cdot v$

$V = 100\pi \cdot 20$

$V = 2000\pi$

$V = 6280 \text{ cm}^3 = 6,28 \text{ l}$

Rešitve: 9. razred

7. teden: 1. ura

<u>str 87 / mol 7</u>	Kamen ima tolikšno prostornino kot je izpodrinil voda.	
VALJ	$V = \sigma \cdot v$	$V = 100 \cdot 3,14$
$d = 1 \text{ dm} = 10 \text{ cm}$	$V = \pi r^2 \cdot v$	$V = 314 \text{ cm}^3$
$v = 4 \text{ cm}$	$V = \pi \cdot 5^2 \cdot 4$	$\begin{array}{r} 36 \cdot 15 \\ 36 \\ 180 \\ 540 \end{array}$
$r = 5 \text{ cm}$	$V = 100\pi \text{ cm}^3$	$\begin{array}{r} 180 \cdot 12 = 1560 \\ 60 \end{array}$
$V = 314 \text{ cm}^3$	Prostornina kamna je 314 cm^3 .	

<u>str 87 / mol 9</u>	VALJ - potlači za pomožno plavčca	
$d = 1,2 \text{ m}$	$pl = 2\pi r \cdot v$	$\begin{array}{r} 3,14 \cdot 2,4 \\ 628 \\ 1256 \\ 7536 \end{array}$
$v = 2 \text{ m}$	$pl = 2\pi \cdot 0,6 \cdot 2$	
$r = 0,6 \text{ m}$	$pl = 2,4\pi$	
$pl =$	$pl = 7,536 \text{ m}^2$	
Odg: Valj potlači $7,5 \text{ m}^2$		