8. teden MAT. 9 razred
2. ura

U/ str 173/ nal 1

KROGLA

$r = 20\,cm$

$P = 1600\pi\,cm^2$

$P = 4\pi r^2$

$P = 4\pi \cdot 20^2$

$P = 4\pi \cdot 400$

$P = 1600\pi\,cm^2$

U/ str 173/ nal 2

premer $d = 6\,cm$

$r = 3\,cm$

$P = 36\pi\,cm^2$

$P = 4\pi r^2$

$P = 4\pi \cdot 3^2$

$P = 4 \cdot \pi \cdot 9$

$P = 36\pi$

$P \doteq 113{,}04\,cm^2$

$3{,}14 \cdot 36$

942

1884

$113{,}04$

U/ str 173/ nal 3

$d = 18\,cm$

$r = 9\,cm$

$V = 972\pi\,cm^3$

$V = \frac{4\pi r^3}{3}$

$V = \frac{4\pi \cdot 9^3}{3}$

$V = \frac{4\pi \cdot 729 \cdot 243}{3}$

$V = 972\pi\,cm^3$

$9 \cdot 9 \cdot 9 =$

$= 81 \cdot 9 =$

$= 729$

$729 : 3 = 243$

12

$\dots 9$

8. teden MAT 9. razred 2. ura

U/str 173/nal 4

POLKROGLA $P = 4\pi r^2$ $O = \pi r^2$

$r = 20$ cm $P = 4\pi \cdot 20^2$ $O = \pi \cdot 20^2$

$P = 1200\pi$ cm^2 $P = 4\pi \cdot 400$ $O = 400\pi$

$V = 5333\pi$ cm^3 $P = 1600\pi$ cm^2

Površina polkrogle: - površina polovice krogle in ploščina kroga

$1600\pi : 2 = 800\pi$

$800\pi + 400\pi = 1200\pi$

$V = \frac{4\pi r^3}{3}$ $20^3 = 8000$

$8000 \cdot 4 = 32000$

$V = \frac{4 \cdot \pi \cdot 20^3}{3}$ $32000 : 3 = 10666{,}6$

$V = 10667\pi$ cm^3

POLKROGLA - VOLUMEN

$10667\pi : 2 = 5333\pi$ cm^3

U/str 173/nal 5

POLKROGLA

$d = 7$ m

$r = 3{,}5$ m

Površina brez spodnje ploskve

$P = 4\pi r^2$

$P = 4 \cdot \frac{22}{7} \cdot 3{,}5^2$

$P = \frac{4 \cdot 22 \cdot 12{,}25 \cdot 1{,}75}{7 \cdot 1}$

$P = 154$ m^2

$12{,}25 : 7 = 1{,}75$

52

35

$1{,}75 \cdot 7$

7,00

POLKROGLA

$154 : 2 = 77$

14

Potrebujejo 77 m^2 pločevine.

U/str 173/nal 7

KROGLA

$P = 576\pi$ cm^2

$V = 2304\pi$ cm^3

$P = 4\pi r^2$

$576\pi = 4\pi r^2 / : 4$

$r^2 = 144$

$r = 12$ cm

$V = \frac{4\pi r^3}{3}$

$V = \frac{4\pi \cdot 12^3}{3}$

$V = \frac{4\pi \cdot 1728 \cdot 576}{3 \cdot 1}$

$V = 2304\pi$ cm^3

$144 \cdot 12$

144

288

1728