Jehlan

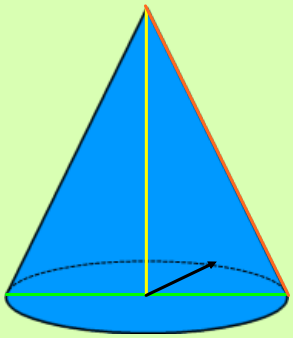
d

průměr

s

r $\frac{1}{3}$ v

poloměr



Objem kužele: $V = \frac{1}{3} . \pi . r^2 . v$

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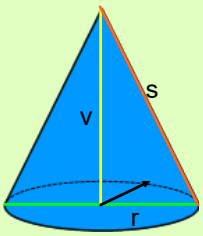

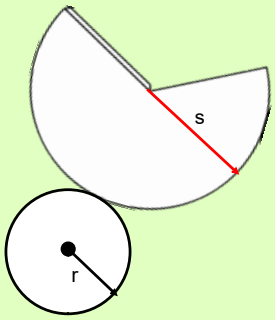

Povrch kužele: $S = S_p + S_{pl}$

$S_p = \pi . r^2$ obsah podstavy

$S_{pl} = \pi . r . s$ povrch pláště

$S = \pi . r . (r + s)$

Vypočítej povrch kužele, je-li d = 12 cm, v = 8 cm a s = 10 cm

$S = \pi r . (r + s)$

$S = 3,14 . 6 . (6 + 10)$

$S = 301,44 \text{ cm}^2$

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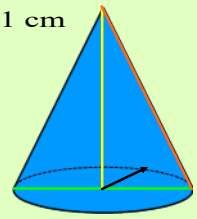
Vypočítej povrch a objem kužele, kde r = 7 cm, s = 11 cm



$S = \pi r.(r+s)$

$S = 3{,}14 \cdot 7 \cdot (7+11)$

$S = 395{,}64\ cm^2$

$V = \frac{1}{3}\pi \cdot r^2 \cdot v$

$V = \frac{1}{3}\ 3{,}14 \cdot 7^2 \cdot 8{,}5$

$V \doteq 435{,}94\ cm3$

$s^2 = v^2 + r^2$

$11^2 = v^2 + 7^2$

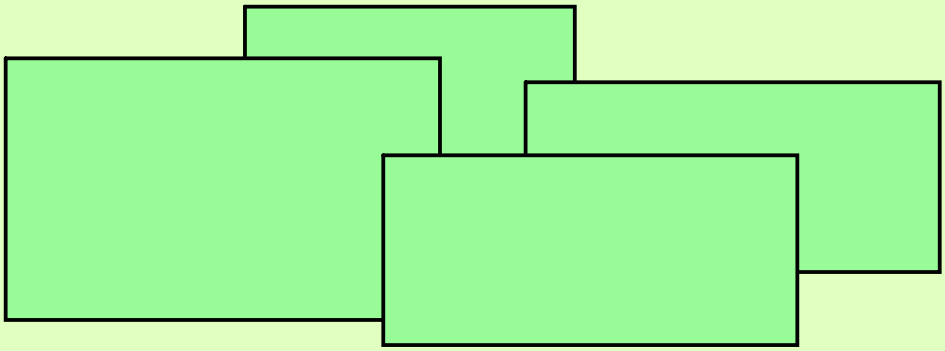
$121 = v^2 + 49$

$v^2 = 121 - 49$

$v^2 = 72$

$v \doteq 8{,}5\ cm$

$\frac{1}{3}$



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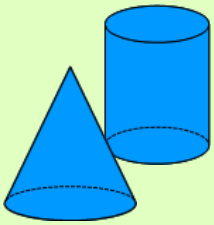
Kolikrát je větší povrch válce než kužele?



r = 8 cm, v = 14 cm

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

$S = 2.3{,}14.8 \cdot (8+14)$

$S = 1\ 004{,}8\ cm^2$

$S = \pi r \cdot (r + s)$

$S = 3{,}14 \cdot 8.(8 + 16{,}12)$

$S = 605{,}89\ cm^2$

$\frac{1}{3}$

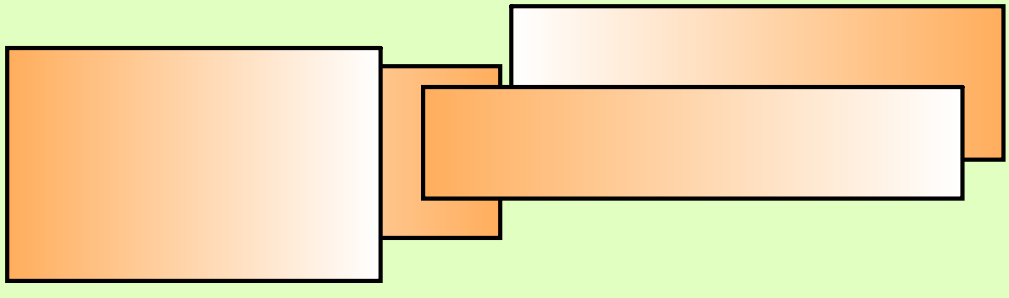
$s^2 = r^2 + v^2$

$s^2 = 8^2 + 14^2$

$s^2 = 64 + 196$

$s \doteq 16{,}12\ cm$

1004,8 : 605,89 = 1,658 krát



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