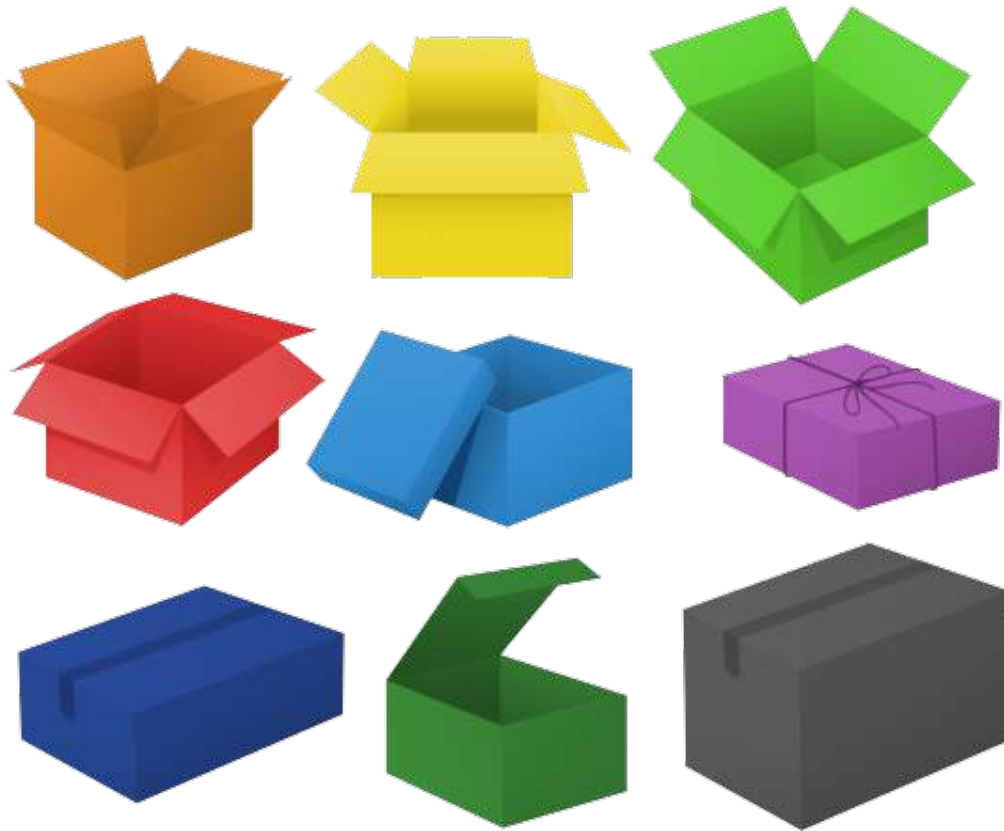


Mit hæfte om rumfang 1



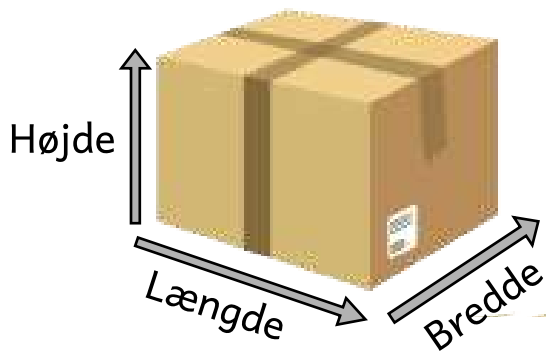
Rumfang er et mål for størrelsen af en rummelig figur. Rumfanget beskriver, hvor meget en figur fylder. Det kaldes også for **volumen** og forkortes med V . Rumfang bliver målt i kubik (cm^3 eller m^3).

Navn og klasse: _____

Rumfang

Rumfang beregnes på forskellige måder, alt efter hvilken figur det er. I de første par opgaver, skal vi beregne rumfanget af en kasse. Det gør man ved at sige:

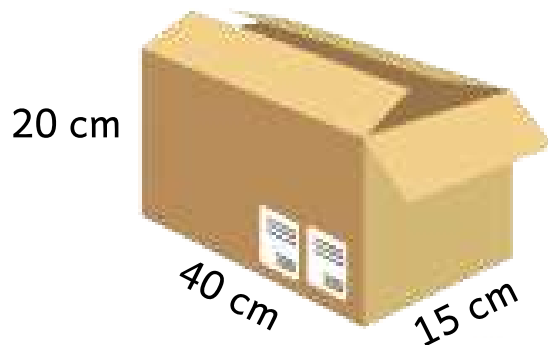
$$(L) \text{ længde} \times (B) \text{ bredde} \times (H) \text{ højde} = V \text{ (rumfang)}$$



$$L \times B \times H = V$$

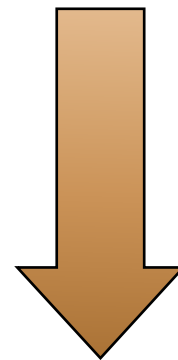
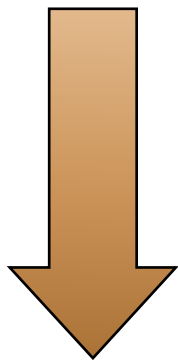
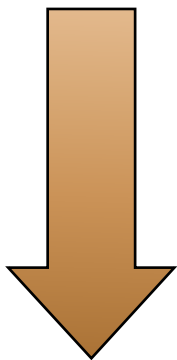
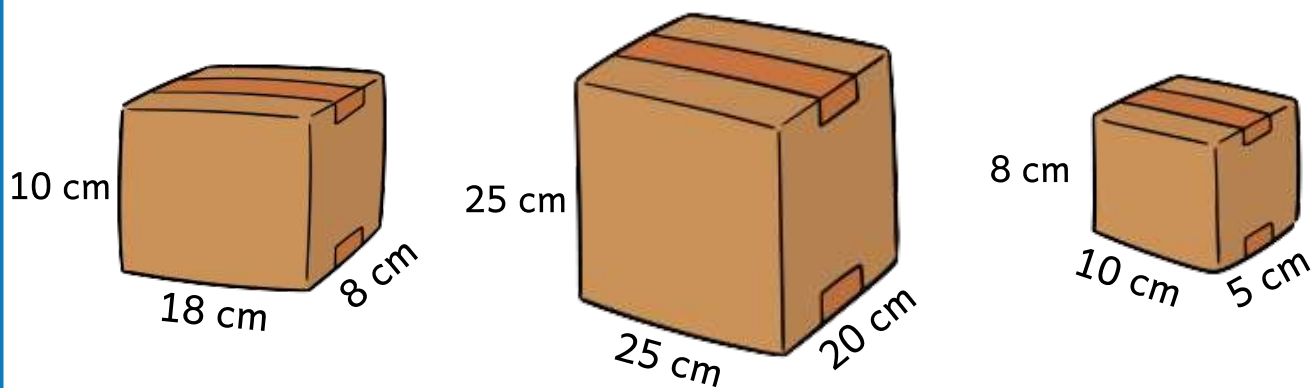
Prøv selv:

Vis hvordan du regner:



Udregn rumfanget

Udregn rumfanget for kasserne.



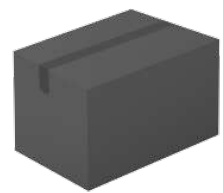
= cm³

= cm³

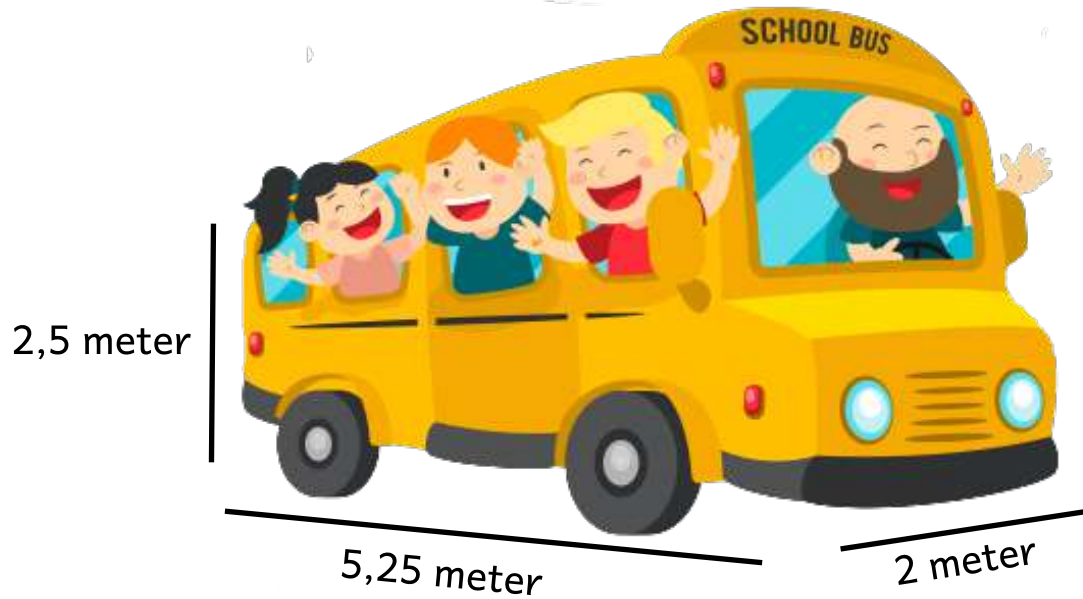
= cm³



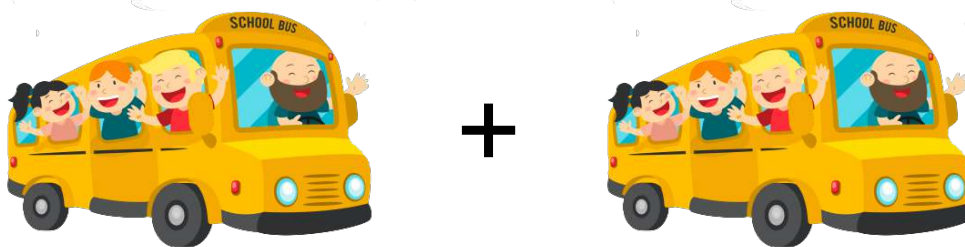
Rumfang



Udregn rumfanget af bussen.

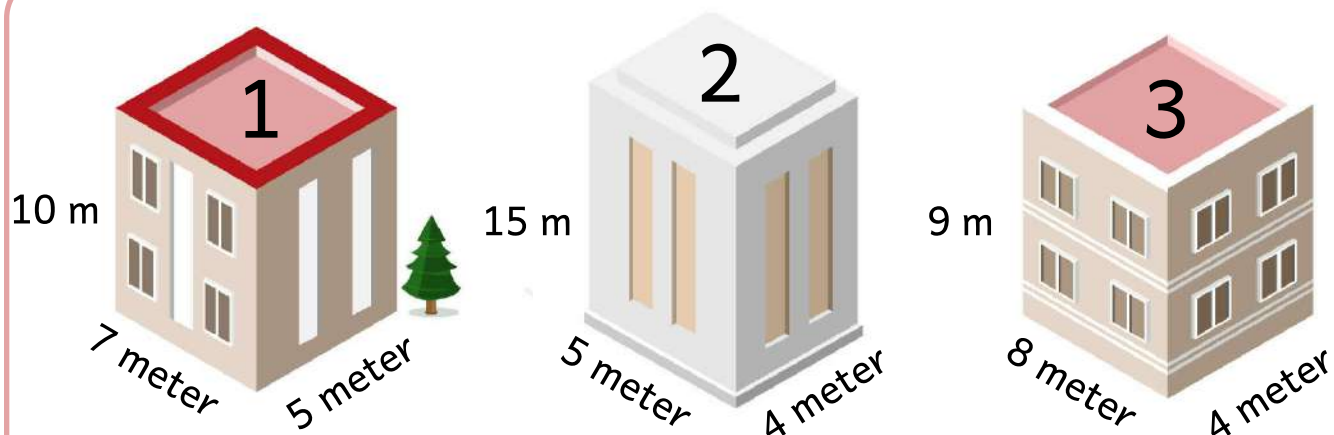


Rumfanget af bussen:



Rumfanget af 2 busser:

Hvilken er størst?



Hvilken bygning har det største rumfang? Sæt kryds.

Bygning 1

Bygning 2

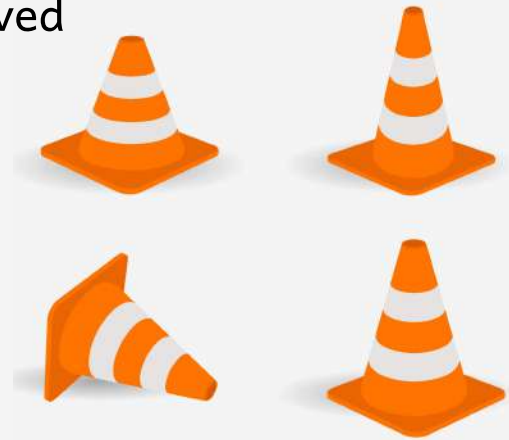
Bygning 3

De er lige store

Rumfang

I de næste par opgaver, skal vi beregne rumfanget af en kegle. Det gør man ved at sige:

$$\frac{1}{3} \times \pi \times r^2 \times h = V$$

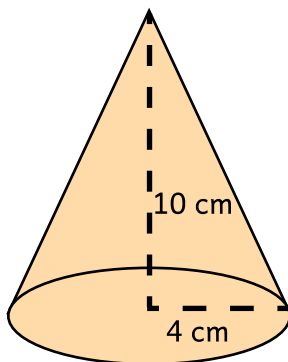


Få styr på begreberne:

Hvad står π for?

Hvad står r for?

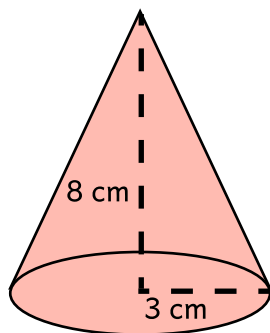
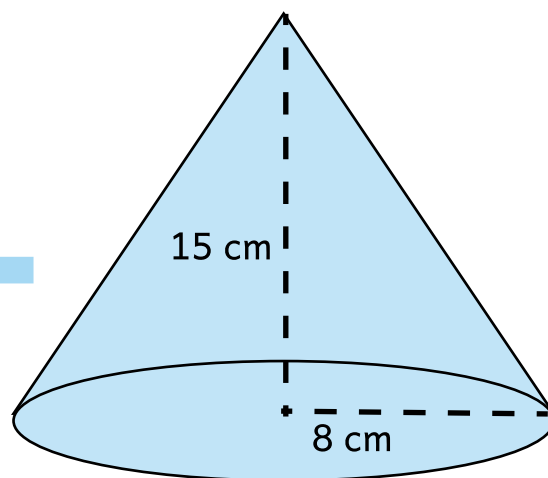
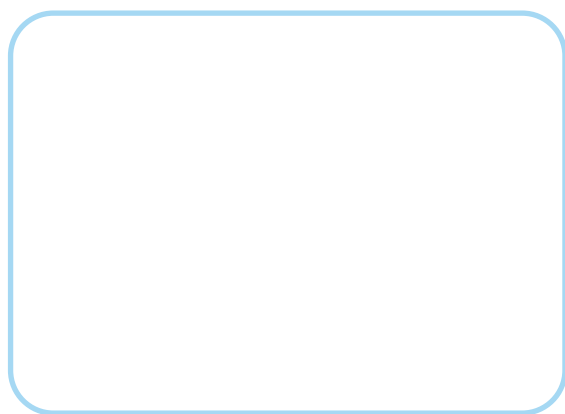
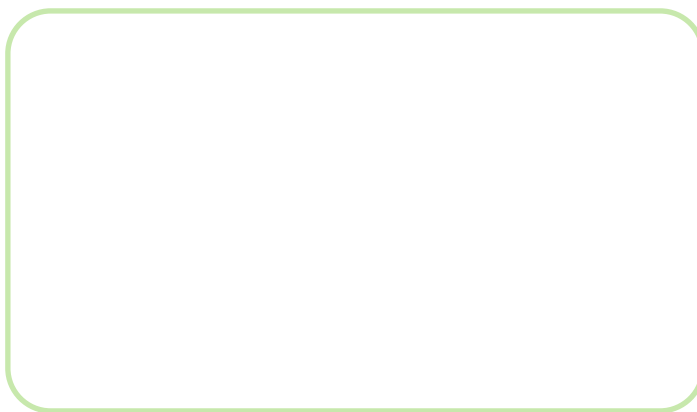
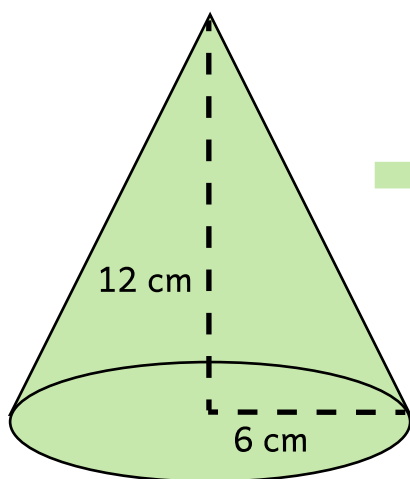
Udregn rumfanget:



Vis hvordan du regner:

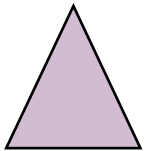
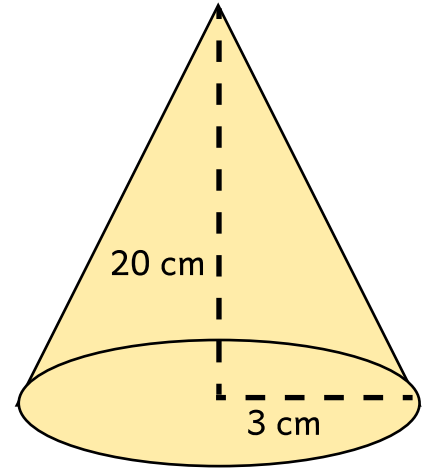
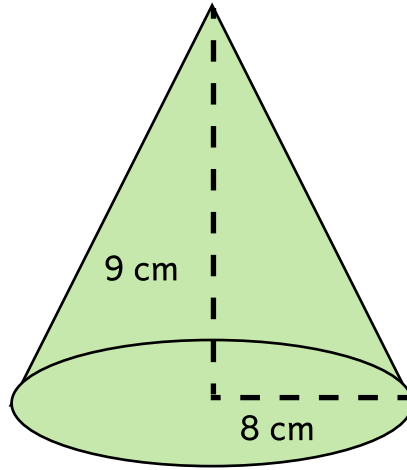
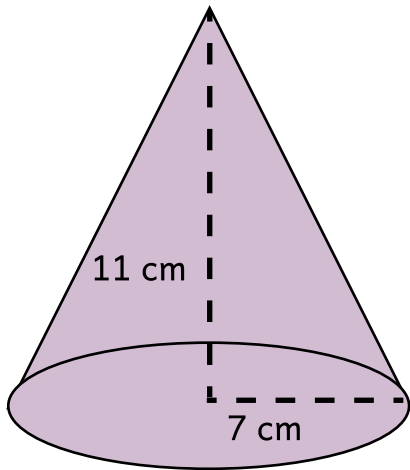
Rumfang

Udregn rumfanget for keglerne.

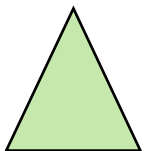


Rumfang

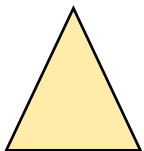
Hvilken kegle har det mindste rumfang? Sæt kryds.



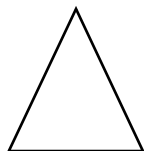
Den lilla kegle er mindst .



Den grønne kegle er mindst.



Den gule kegle er mindst.



De har alle 3 samme størrelse.

Rumfang

Udregn rumfanget for isvaflerne. Husk at det ene mål er diameteren, og du skal bruge radius for at udregne rumfanget.



Rumfang

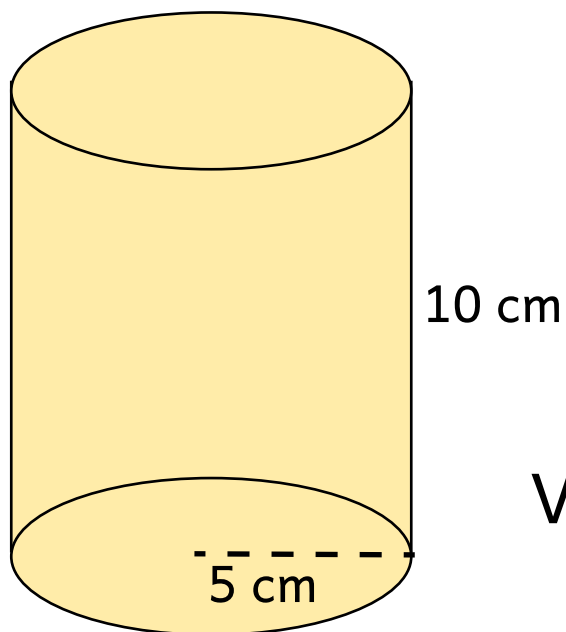
I de næste par opgaver, skal vi beregne rumfanget af et cylinder. Det gør man ved at sige:

$$\pi \times r^2 \times h = V$$

Altså man finder først arealet af cirklen, og derefter ganger med højden.



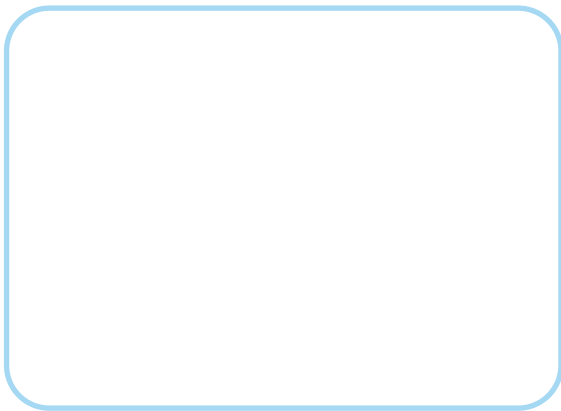
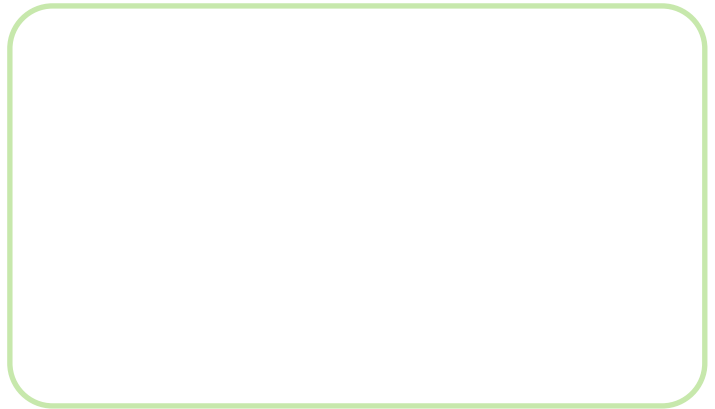
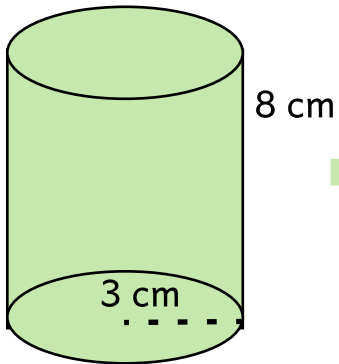
Prøv selv:



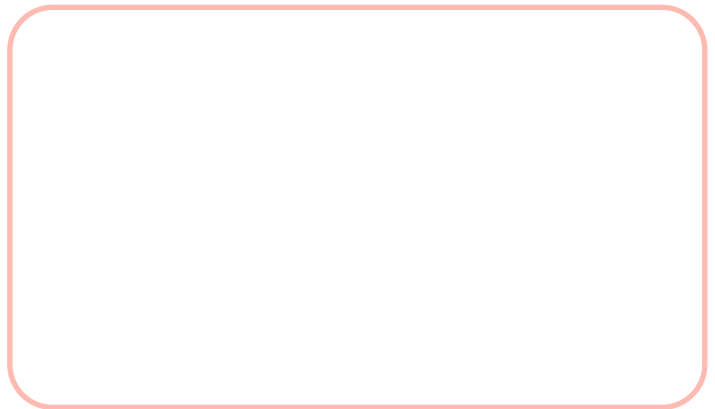
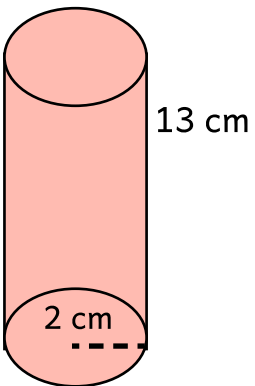
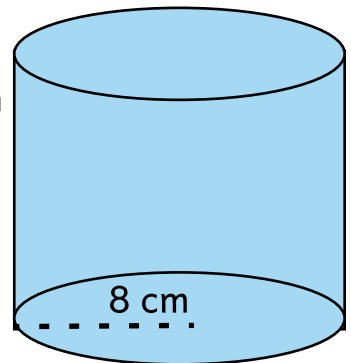
$$V = \underline{\hspace{10cm}}$$

Rumfang

Udregn rumfanget for cylindrerne.

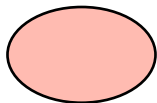
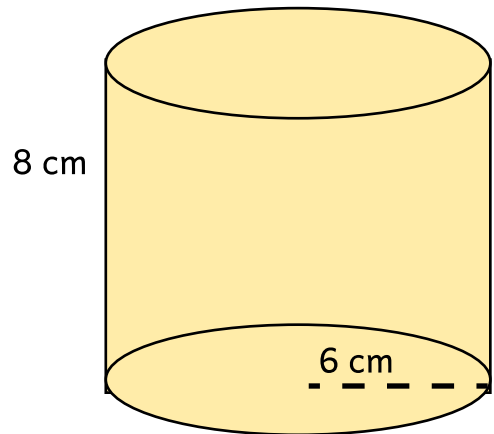
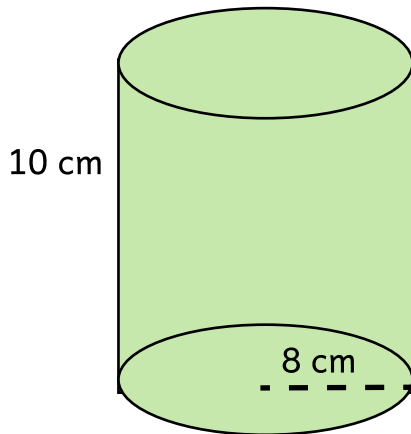
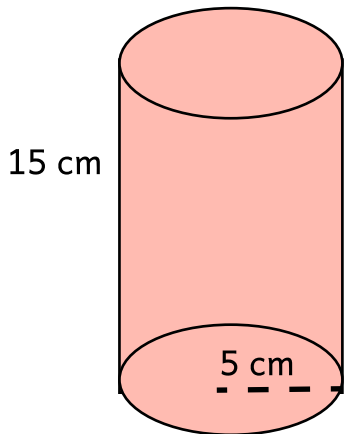


16 cm



Rumfang

Hvilket cylinder har det største rumfang? Udregn og sæt kryds.



Den røde cylinder.



Den grønne cylinder.



Den gule cylinder.



De har alle 3 samme størrelse.

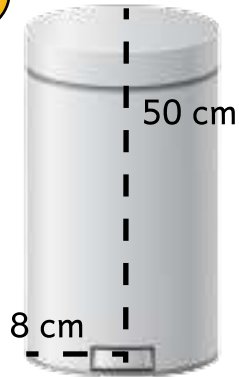
Rumfang

Hvilken skraldespand kan der være mest skrald i? Udregn og sæt kryds.

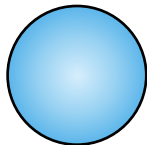
1



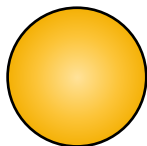
2



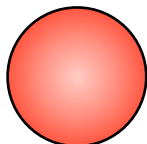
3



Skraldespand 1



Skraldespand 2



Skraldespand 3

