

Oppgave 1.

a) $5 \text{ m} = \underline{\hspace{2cm}} \text{ dm}$ b) $10 \text{ cm} = \underline{\hspace{2cm}} \text{ dm}$ c) $500 \text{ mm} = \underline{\hspace{2cm}} \text{ m}$ d) $1.03 \text{ km} = \underline{\hspace{2cm}} \text{ m}$

e) $3.34 \text{ m}^2 = \underline{\hspace{2cm}} \text{ dm}^2$ f) $300 \text{ cm}^2 = \underline{\hspace{2cm}} \text{ dm}^2$ g) $4\,000 \text{ mm}^2 = \underline{\hspace{2cm}} \text{ dm}^2$

h) $3.34 \text{ m}^3 = \underline{\hspace{2cm}} \text{ dm}^3$ i) $50\,000 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ dm}^3$ j) $0.04 \text{ m}^3 = \underline{\hspace{2cm}} \text{ cm}^3$

k) $5 \text{ l} = \underline{\hspace{2cm}} \text{ dl}$ l) $3 \text{ cl} = \underline{\hspace{2cm}} \text{ l}$ m) $50\,000 \text{ cm}^3 = \underline{\hspace{2cm}} \text{ dl}$ n) $0.04 \text{ m}^3 \underline{\hspace{2cm}} \text{ l}$

Oppgave 2. Regn ut.

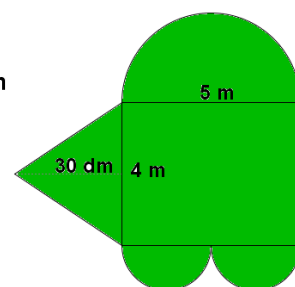
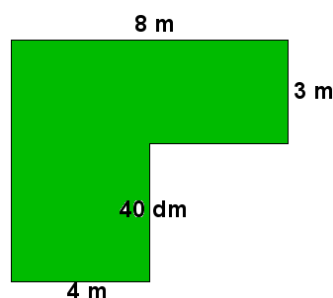
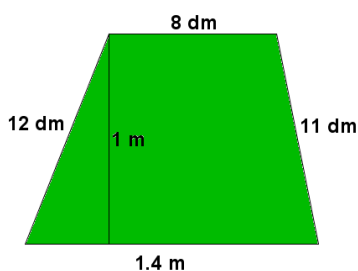
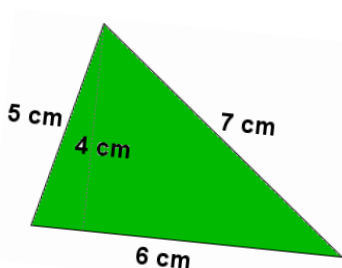
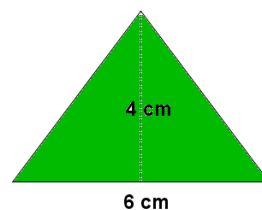
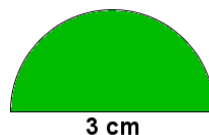
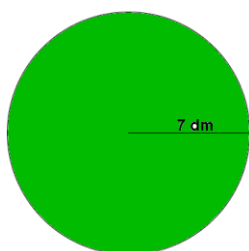
a) $5 \text{ dm} + 2 \text{ m} + 35 \text{ cm}$ b) $3 \text{ km} + 200 \text{ m} + 0.08 \text{ mil}$

c) $50 \text{ dm}^2 + 0.3 \text{ m}^2 + 2 \text{ dm}^2$ d) $0.5 \text{ cm}^2 + 0.07 \text{ dm}^2 + 500 \text{ mm}^2$

e) $3 \text{ m}^3 + 400 \text{ l} + 0.6 \text{ dm}^3$ f) $40 \text{ l} + 3\,000 \text{ cm}^3 + 0.02 \text{ m}^3$

Oppgave 3. Regn ut areal og omkrets til figurene.

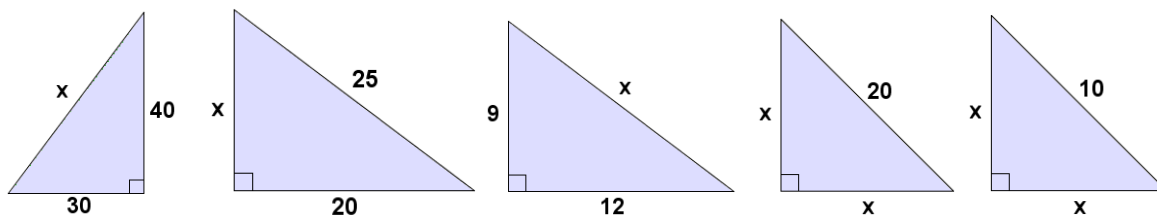
(Bruk Pytagoras' setning til å finne ukjente sider i trekantene.)



Oppgave 4. Konstruer trekant ABC der $AB = 8 \text{ cm}$, $\angle A = 60$ grader og $\angle B = 45$ grader.
Tegn hjelpefigur først.

Oppgave 5. Konstruer trekant ABC der $BC = 5 \text{ cm}$, $\angle B = 120$ grader og $BA = 6 \text{ cm}$.
Tegn hjelpefigur først.

Oppgave 6. Regn ut de ukjente sidene i trekantene.

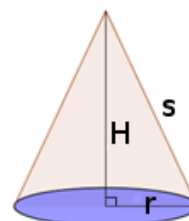


Oppgave 7.

En kjele har radius $r = 10$ cm.
Sidekanten $s = 25$ cm.

Bruk Pytagoras' setning til å finne høyden H til kjealen.

Finn deretter volumet V og overflaten O til kjealen.



Oppgave 8.

En sylinderformet tank har diameter $d = 12$ dm og høyde $H = 2$ m.

a) Finn volumet til tanken i m^3 og overflaten til tanken i m^2 .

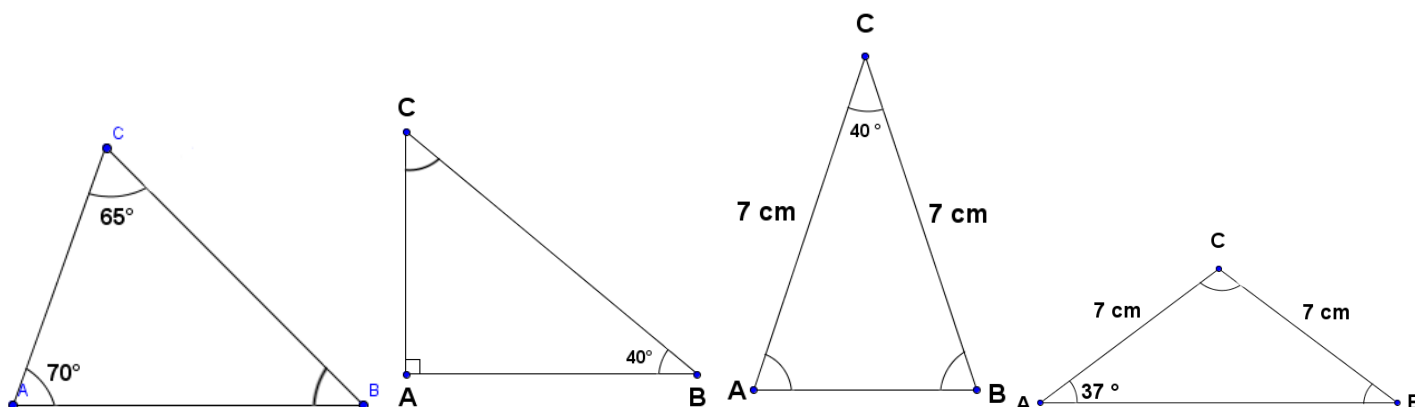
Tanken fylles med bensin med en fart på 2 liter / sekund.

b) Hvor mange minutter tar det å fylle opp tanken?

Svar med en desimal.



Oppgave 9. Finn de ukjente vinklene i trekantene.



Oppgave 10. Trekantene nedenfor er formlike. Regn ut de ukjente sidene a og b i den største trekanten.

