1.01

a) meter, fot, tomme, nautisk mil, mil, a.u, lysår, yard, mile, Å, alen

b) sekund, minutt, time, år, døgn, uke, måned, årstid

c) kilogram, tonn, pund, stone, ounze

1.02

a) 1) $3560 \text{ m} = 3560 \cdot \frac{1}{1000} \text{ km}$

$$= 3,560 \text{ km}$$

2) $1,49 \cdot 10^{11} \text{ m} = 149 \text{ Gm}$

$$(149 \cdot 10^{9} = 1,49 \cdot 10^{11})$$

3) $2,0 \cdot 10^{-9} \text{ s} = 2,0 \text{ nm}$

4) $0,00000045 \text{ g} = 45 \text{ μg}$

b)

1) $6{,}30 \text{ nm} = 6{,}3 \cdot 10^2 \cdot 10^{-9} \text{ m}$

$$= 6{,}3 \cdot 10^{-7} \text{ m}$$

2) $0{,}218 \text{ mm} = 2{,}18 \cdot 10^{-1} \cdot 10^{-3} \text{ m}$

$$= 2{,}18 \cdot 10^{-4} \text{ m}$$

3) $4{,}670 \text{ tonn} = 4{,}670 \cdot 10^3 \cdot 10^3 \text{ kg}$

$$= 4{,}670 \cdot 10^6 \text{ kg}$$

4) $3{,}45 \ \mu s = 3{,}45 \cdot 10^{-6} \text{ s}$
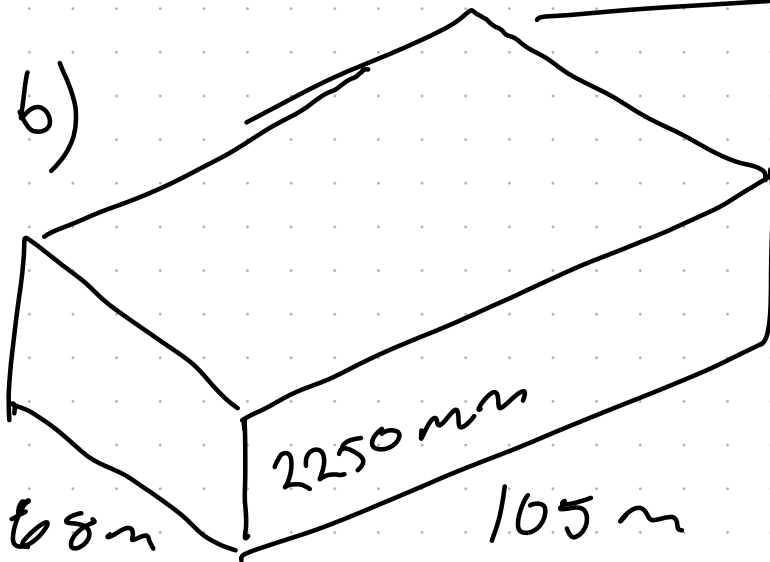
1.03

a) $108 \frac{m}{s} = 108 \cdot \dfrac{0,001\ km}{\frac{1}{3600}\ h} \cdot \dfrac{3600}{3600}$

$= 108 \cdot \dfrac{0,001 \cdot 3600\ km}{1\ h}$

$= 108 \cdot 3,6\ \frac{km}{h}$

$= 389 \frac{km}{h}$

b)

2250 mm
68 m
105 m

$V = \ell \cdot b \cdot h$

$V = 105\,m \cdot 68\,m \cdot 2250 \cdot 10^{-3}\,m$

$= 16\,0.65\ m^3$

$= 1,6 \cdot 10^4\ m^3$

1 liter = 1 dm^3

10 dm = 1 m

1 m^3 = 1 m · 1 m · 1 m

$\quad\quad$ = 10 dm · 10 dm · 10 dm

1 m^3 = 1000 dm^3

$\underline{V}$ = 1,6 · 10^4 m^3 = 1,6 · 10^4 · 10^3 dm^3

$\quad\quad$ = 1,6 · 10^7 dm^3 = $\underline{1,6 \cdot 10^7 \text{ liter}}$

Svaret skal ha enhet m^3
Oppgitte tall :
$\quad$ 105 m
$\quad$ 68 m
$\quad$ 2250 mm = 2,250 m