Reading 1/21

(a) | mol Nz has 6.02×10²³ molecules

just like | mol Ar => False

(b) | mol Nz (28.09) = 28.09 vs.

| mol Ar (40.09) = 40.09 => | False

(c) 28.09 vs.

| mol Nz | vs. | 40.05 | | False

2) (a) I magine you have a square of side length 2 and area $A = L^2$. If the stides change by d2 then dA = 2L dL (by differentiation/chain rule) divide by: $\frac{dA}{A} = \frac{2L}{L^2} dL = \frac{2dL}{L} = 2d dT$ A=L²

(b) $\Delta A = \eta \delta T = 2(1.7 \times 10^{-5})^{\circ} (100^{\circ}) = 3.4 \times 10^{-3}$

$$A = A_i (1.0034) = (5.000 \text{ cm}^2)(1.0034) = [5.017 \text{ cm}^2]$$