

9/11

A4 Converting Units

Convert between units as specified. Express your answer in standard form if the power of ten is ≥ 3 , or ≤ -3 . Your answer must include units, as indeed it must in *all* questions with units in this book.

Convert:

- A4.1 a) 34.5 mm to nm b) 34.5 mm to pm

A4.2 2.4 ps to ms

A4.3 a) 465 μA to mA b) 465 μA to kA

A4.4 43×10^{-7} GW to μW

A4.5 34 m^2 to cm^2

A4.6 58 N m to N cm

A4.7 9600 μm^2 to cm^2

A4.8 0.035 N cm^{-2} to Pa

A4.9 450 kg m^{-3} to kq mm^{-3}