Working with standard form II

This task is about calculating numbers in standard form.

Fill in the boxes for each of these calculations below in **standard form**.

E.g., The number 3.1×10^2 is written in the boxes as: $\boxed{3.1} \times 10^{\boxed{2}}$ kilometres.

Light travels approximately 3×10^5 kilometres in **one** second.
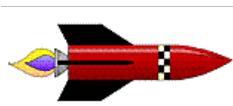
a)   How far does light travel in …

i) 3 seconds? $\boxed{} \times 10^{\boxed{}}$ kilometres   Optional working space

ii) 7 seconds? $\boxed{} \times 10^{\boxed{}}$ kilometres

iii) 1000 seconds? $\boxed{} \times 10^{\boxed{}}$ kilometres

iv) 3.2×10^7 seconds? $\boxed{} \times 10^{\boxed{}}$ kilometres
     (approx. 1 year)

A space ship travels 4.5×10^3 kilometres in **one** hour.

b) How far will it travel in …

i) 100 hours? $\boxed{} \times 10^{\boxed{}}$ kilometres   Optional working space

ii) 2.4×10^1 hours? $\boxed{} \times 10^{\boxed{}}$ kilometres
     (i.e., 1 day)

iii) 1.67×10^{-2} hours? $\boxed{} \times 10^{\boxed{}}$ kilometres
     (approx. 1 minute)