

## Standard Form Problem Solving



### Section A

The planet Mars is  $2.279 \times 10^8$  km from the sun.

i. Write this as an ordinary number. \_\_\_\_\_

The planet Pluto is  $5.92 \times 10^9$  km from the sun.

ii. Write this as an ordinary number. \_\_\_\_\_

iii. How much further away is Pluto than Mars from the sun. Without using a calculator write your answer in standard form. \_\_\_\_\_

### Section B

The cost of a certain commercial aeroplane was  $\$3.52 \times 10^5$  in 2007. The value of the aeroplane depreciated by 2% each year for the next five years and then by 7% each year subsequently. Writing your answer as an ordinary number, work out:

i. The value of the commercial aeroplane in 2009. \_\_\_\_\_

ii. The value of the commercial aeroplane in 2015. \_\_\_\_\_

The airline purchased 1300 commercial aeroplanes in 2007 and sold some of them in 2009. By 2014 the total value of all commercial aeroplanes was  $\$1.825 \times 10^{11}$ .

iii. How many aeroplanes did they sell in 2009? \_\_\_\_\_

### Section C

Prokaryotic cells range from 1.2 to 10 micrometres.

1 micrometre =  $1 \times 10^{-6}$  metres. Work out:

i. The size of the smallest prokaryotic cell. \_\_\_\_\_

ii. The size of the largest prokaryotic cell. \_\_\_\_\_

The measles virus has a length of 220 nanometres. 1 nanometre =  $1 \times 10^{-9}$  metres. E.coli bacteria has a length of 3.06 micrometres.

iii. How many times larger is the measles virus compared to E.coli bacteria? \_\_\_\_\_

iv. How long is the measles virus in micrometres? \_\_\_\_\_

# Problems Of Form

**Wenbin Ji**



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