GCSE FOUNDATION · REVISION MAT 4

Standard form

1 Write these numbers in standard form.

(a) 3 080 000

(b) 0.0507

2 Write these as ordinary numbers.

(a) 6.02×10^{3}

(b) 7.5×10^{-5}

3 Explain why 12.5×10^{6} is not written in standard form.

Write it correctly in standard form.

4 Show that 8.04×10^{6} is less than 80.5×10^{5}

5 A playing card is 3×10^{-2} cm thick.

1500 of them are stacked in a pile.

Work out the height of the pile in cm.

6 The length of a red blood cell is 8×10^{-6} m.

The length of a hair is 1.2×10^{-4} m.

How many times longer is a hair than a red blood cell?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Standard form

1 (a) **3.08×10^{6}**

(b) **5.07×10^{-2}**

2 (a) **6020**

(b) **0.000 075**

3 The first number must be at least 1 and less than 10.

1.25×10^{7}

4 $80.5 \times 10^{5} = 8.05 \times 10^{6}$

so 8.04×10^{6} is **less** ✓

5 $1500 \times 3 \times 10^{-2}$

= **45 cm**

6 $(1.2 \times 10^{-4}) \div (8 \times 10^{-6})$

= **15** times longer

Mr&Mrs MATHS