GCSE FOUNDATION · REVISION MAT 5

Standard form

1 Write these numbers in standard form.

(a) 900 000

(b) 0.000 032

2 Write these as ordinary numbers.

(a) 9.9×10^{7}

(b) 4.01×10^{-1}

3 Explain why 0.08×10^{5} is not written in standard form.

Write it correctly in standard form.

4 Show that 5.5×10^{-2} is greater than 0.06×10^{-1}

5 A sheet of foil is 1.5×10^{-3} cm thick.

4000 of them are stacked in a pile.

Work out the height of the pile in cm.

6 The length of a dust mite is 2.5×10^{-4} m.

The length of a ladybird is 7.5×10^{-3} m.

How many times longer is a ladybird than a dust mite?

ANSWERS · REVISION MAT 5

Standard form

1 (a) 9×10^{5}

(b) 3.2×10^{-5}

2 (a) **99 000 000**

(b) **0.401**

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

8×10^{3}

4 $0.06 \times 10^{-1} = 6 \times 10^{-3}$

so 5.5×10^{-2} is **greater** ✓

5 $4000 \times 1.5 \times 10^{-3}$

= **6 cm**

6 $(7.5 \times 10^{-3}) \div (2.5 \times 10^{-4})$

= **30** times longer

Mr&Mrs MATHS