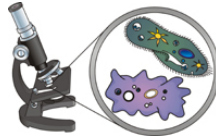


# Microscopic numbers

---

This task is about ordering some numbers written in standard form.



Tanu used a microscope that had a special ruler to measure the length in centimetres of some tiny animals. She wrote their sizes in standard form.

Here are her results:

$5.6 \times 10^{-2}$      $3.4 \times 10^{-5}$      $1.6 \times 10^{-4}$      $3.1 \times 10^{-2}$      $6.8 \times 10^{-4}$      $2.1 \times 10^{-5}$

a) Sort these six numbers from smallest to largest and write them in the spaces below.

i) \_\_\_\_\_ (smallest)

ii) \_\_\_\_\_

iii) \_\_\_\_\_

iv) \_\_\_\_\_

v) \_\_\_\_\_

vi) \_\_\_\_\_ (largest)

b) i) Circle the larger of these two numbers.  $2.6 \times 10^{-4}$  /  $2.17 \times 10^{-4}$

ii) Explain how you can tell it is larger.

\_\_\_\_\_

\_\_\_\_\_

c) i) Circle the larger of these two numbers.  $3.17 \times 10^{-2}$  /  $4.81 \times 10^{-3}$

ii) Explain how you can tell it is larger.

\_\_\_\_\_

\_\_\_\_\_