

1 Which pair of units are both SI base units?

- A ampere, degree celsius
- B ampere, kelvin
- C coulomb, degree celsius
- D coulomb, kelvin

2 The prefix 'centi' indicates $\times 10^{-2}$.

Which line in the table correctly indicates the prefixes micro, nano and pico?

	$\times 10^{-12}$	$\times 10^{-9}$	$\times 10^{-6}$
A	nano	micro	pico
B	nano	pico	micro
C	pico	nano	micro
D	pico	micro	nano

3 Which expression involving base units is equivalent to the volt?

- A $\text{kg m}^2 \text{s}^{-1} \text{A}^{-1}$
- B $\text{kg m s}^{-2} \text{A}$
- C $\text{kg m}^2 \text{s}^{-1} \text{A}$
- D $\text{kg m}^2 \text{s}^{-3} \text{A}^{-1}$

4 A steel rule can be read to the nearest millimetre. It is used to measure the length of a bar whose true length is 895 mm. Repeated measurements give the following readings.

length / mm 892, 891, 892, 891, 891, 892

Are the readings accurate and precise to within 1 mm?

	results are accurate to within 1 mm	results are precise to within 1 mm
A	no	no
B	no	yes
C	yes	no
D	yes	yes