

1 Which estimate is realistic?

- A** The kinetic energy of a bus travelling on an expressway is 30 000 J.
- B** The power of a domestic light is 300 W.
- C** The temperature of a hot oven is 300 K.
- D** The volume of air in a car tyre is 0.03 m^3 .

2 Which unit is equivalent to the coulomb?

- A** ampere per second
- B** joule per volt
- C** watt per ampere
- D** watt per volt

3 Two forces of equal magnitude are represented by two coplanar vectors. One is directed eastwards and the other is directed northwards.

What is the direction of a single force that will balance these two forces?

- A** towards the north-east
- B** towards the north-west
- C** towards the south-east
- D** towards the south-west

Space for working