

- 10** A tractor of mass 1000 kg is connected by a tow-bar to a trailer of mass 1000 kg. The total resistance to motion has a constant value of 4000 N. One quarter of this resistance acts on the trailer.

When the tractor and trailer are moving along horizontal ground at a constant speed of 6 ms^{-1} , what is the force exerted on the tractor by the tow-bar?

- A** 0 N **B** 1000 N **C** 3000 N **D** 4000 N

Space for working