1 What is a reasonable estimate for the density of sand?

    A $2 \times 10^2\,\text{g}\,\text{cm}^{-3}$

    B $2 \times 10^3\,\text{g}\,\text{cm}^{-3}$

    C $2 \times 10^1\,\text{kg}\,\text{m}^{-3}$

    D $2 \times 10^3\,\text{kg}\,\text{m}^{-3}$

2 Which physical quantity could have units of $\text{N}\,\text{s}^2\,\text{m}^{-1}$?
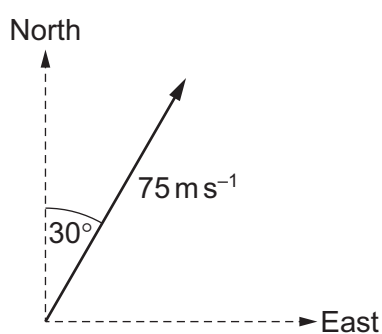
    A   acceleration

    B   force

    C   mass

    D   momentum

3 A velocity vector is shown.

What are the components of the velocity vector in the northerly and in the easterly directions?

	component of vector in northerly direction $/\text{m}\,\text{s}^{-1}$	component of vector in easterly direction $/\text{m}\,\text{s}^{-1}$
A	38	38
B	38	65
C	65	38
D	65	65