

The dimensions of a unit must be the same as those of the quantity to which it applies. So in place of

$$[F] = MLT^{-2}$$

we can write

$$[\text{newton}] = [\text{kilogram}] [\text{metre}] [\text{second}]^{-2}$$

or  $[N] = [kg] [m] [s]^{-2}$

and  $kg\,m\,s^{-2}$  is a suitable unit for any force.

(In fact the definition of the newton means that one newton corresponds to ONE kilogram and  $m\,s^{-2}$ . So  $1\,N = 1\,kg\,m\,s^{-2}$ .)

### Example 1

What are the dimensions of (a) force, (b) moment, (c) work, (d) pressure?

#### Method

We need to relate each of these quantities to quantities whose dimensions are known.

(a) Force = Mass  $\times$  Acceleration

$$[F] = M \times \frac{L}{T^2} \quad \text{or} \quad MLT^{-2}$$

(b) Moment = Force  $\times$  Perpendicular distance

$$\therefore [\text{Moment}] = MLT^{-2} \times L \quad \text{or} \quad ML^2T^{-2}$$

(c) [Work] = [Force  $\times$  Distance] =  $MLT^{-2} \times L$   
or  $ML^2T^{-2}$

(d) Pressure =  $\frac{\text{Force}}{\text{Area}}$

$$[p] = \frac{MLT^{-2}}{L^2} \quad \text{or} \quad ML^{-1}T^{-2}$$

#### Answers

(a)  $MLT^{-2}$

(b)  $ML^2T^{-2}$

(c)  $ML^2T^{-2}$

(d)  $ML^{-1}T^{-2}$

### Example 2

Which one of the following has different dimensions from the others?

- A stress  $\times$  strain    B stress/strain  
C pressure    D potential energy per unit volume  
E torque    [O & C 94]

#### Method

Answer A mentions stress which is defined as force per unit area while strain has no dimensions because it is the ratio of increase in length to original length. So A has the dimensions of stress ( $F/A$  or  $MLT^{-2}/L^2$  or  $ML^{-1}T^{-2}$ ).

Answer B clearly has the same dimensions so we are looking for an answer whose dimensions are not  $ML^{-1}T^{-2}$ .

Answer C is also a force divided by an area by definition of pressure.

Now for D we look for a definition or formula concerning potential energy.

$PE = mgh$  or  $PE = \text{work done in lifting} = \text{weight} \times \text{height}$  may be useful.

$mgh$  has dimensions  $M(LT^{-2})L$  and, more easily, weight  $\times$  height has dimensions  $(MLT^{-2})L$ . Dividing either expression by volume ( $L^3$ ) we get  $ML^{-1}T^{-2}$ .

So for D the dimensions are also  $ML^{-1}T^{-2}$  and the different answer must be E (where torque = force  $\times$  distance, see Chapter 33, page 274, and has dimensions  $(MLT^{-2})L$  or  $ML^2T^{-2}$  confirming our answer).

#### Answer

E.

### Example 3

Which of the following units could be used for capacitance?

A  $kg\,m^2\,s^{-1}\,C$

B  $kg\,m^2\,s^{-2}\,C^2$

C  $kg^{-1}\,m^{-1}\,C^2$

D  $kg^{-1}\,m^{-2}\,s^2\,C^2$

E  $kg^{-1}\,m^{-2}\,s^2\,C$

#### Method

Some relationships that might be useful are

$$\text{capacitance } C = Q/V$$

and  $\frac{1}{2}CV^2 = \text{work done (or energy stored)}$ ; see Chapter 22.

Neither of these formulae gives an immediate answer because the volt for  $V$  does not appear in the answers suggested.

$$\text{Now } V = \frac{\text{work done}}{\text{charge moved}} = \frac{\text{force} \times \text{distance}}{\text{charge}}$$

and a suitable unit for  $V$  (using C for coulomb now) is

$$\frac{(kg\,m\,s^{-2})\,m}{C} \quad \text{or} \quad kg\,m^2\,s^{-2}\,C^{-1}$$

For capacitance we get  $C/kg\,m^2\,s^{-2}\,C^{-1}$  or  $C^2\,kg^{-1}\,m^{-2}\,s^2$

#### Answer

D.

## Checking equations and units

All terms in an equation must have the same dimensions, i.e. it is homogeneous. This can be

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**Anthony S. Fauci**



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