

1 Stress has the same SI base units as

A  $\frac{\text{force}}{\text{mass}}$ .

B  $\frac{\text{force}}{\text{length}}$ .

C  $\frac{\text{force}}{\text{area}}$ .

D energy.

2 To check calculations, the units are put into the following equations together with the numbers.

Which equation must be **incorrect**?

A  $\text{force} = 300 \text{ J} / 6 \text{ m}$

B  $\text{power} = 6000 \text{ J} \times 20 \text{ s}$

C  $\text{time} = 6 \text{ m} / 30 \text{ m s}^{-1}$

D  $\text{velocity} = 4 \text{ m s}^{-2} \times 30 \text{ s}$

**Space for working**