

- 6** A cylindrical tube rolling down a slope of inclination θ moves a distance L in time T . The equation relating these quantities is

$$L \left(3 + \frac{a^2}{P} \right) = QT^2 \sin \theta$$

where a is the internal radius of the tube and P and Q are constants.

Which row gives the correct units for P and for Q ?

	P	Q
A	m^2	$\text{m}^2 \text{s}^{-2}$
B	m^2	$\text{m} \text{s}^{-2}$
C	m^2	$\text{m}^3 \text{s}^{-2}$
D	m^3	$\text{m} \text{s}^{-2}$