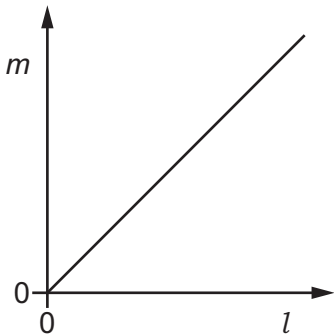


- 14** A balance is used to measure the mass m of a number of cylindrical metal rods of length l . All the metal rods have the same radius r .

The graph shows the variation with l of m .



The gradient of the graph is G .

Which expression gives the density of the metal?

A $\frac{G}{2\pi r}$

B $G2\pi r$

C $\frac{G}{\pi r^2}$

D $G\pi r^2$