1 A student uses the volume of a metal coin in order to determine the density of the metal.

What is **not** needed in order to determine an estimate of the volume of the coin?

- A estimate of the diameter
- B estimate of the mass
- **C** estimate of the thickness
- **D** use of the formula for the volume of a cylinder
- 2 The speed *v* of waves on a stretched wire is given by the equation

$$v = T^p \mu^q$$

where T is the tension in the wire and μ is the mass per unit length of the wire.

What are the values of p and q?

	р	q
A	$-\frac{1}{2}$	$-\frac{1}{2}$
В	$-\frac{1}{2}$	<u>1</u> 2
С	1/2	$-\frac{1}{2}$
D	<u>1</u>	<u>1</u> 2