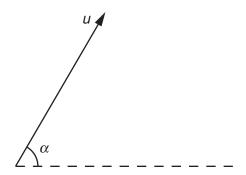
A steel rule can be read to the nearest millimetre. It is used to measure the length of a bar whose true length is 895 mm. Repeated measurements give the following readings.

Are the readings accurate and precise to within 1 mm?

	results are accurate to within 1 mm	results are precise to within 1 mm
Α	no	no
В	no	yes
С	yes	no
D	yes	yes

**7** A projectile is fired at an angle  $\alpha$  to the horizontal at a speed u, as shown.



What will be the vertical and horizontal components of its velocity after a time t? Assume that air resistance is negligible. The acceleration of free fall is g.

	vertical component	horizontal component
Α	$u\sinlpha$	$u\cos \alpha$
В	$u \sin \alpha - gt$	$u\cos\alpha-gt$
С	$u \sin \alpha - gt$	$u\cos \alpha$
D	$u\cos \alpha$	$u \sin \alpha - gt$