

- (b) Repeat this process and include your results for angles of incidence of  $40^\circ$  and  $50^\circ$ . Include your results in the following table. The values in the last 3 columns should be expressed to 3 significant figures. [4]

Angle of incidence, $\theta_i$	Angle of refraction, $\theta_r$	$\sin \theta_i$	$\sin \theta_r$	Refractive index, $n$
$30^\circ$				
$40^\circ$				
$50^\circ$				

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- (c) Calculate a mean value for the refractive index of glass and quote the value along with its uncertainty. [2]

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