

1	(a) $f = \frac{224}{d^2}$	M1 A1	for $3.5 = \frac{k}{8^2}$ oe ($k = 224$) for $f = \frac{224}{d^2}$ oe for $10 = \frac{224}{d^2}$ or $d^2 = 224 \div 10$ or ft their value for k provided $f = \frac{k}{d^2}$ is used for answer in range 4.73 to 4.733	Accept use of \approx for the M mark
	(b) 4.73	M1 A1		