20	(frequency density =) 75 ÷ 100 (= 0.75) **or** any one correct value marked on the FD axis **or** uses their own linear FD scale to find the area of at least one of the third, fourth or fifth bars **OR** eg 1 (large) box / 1 (large) square = 12.5 books oe **or** 5 (sml) squares = 2.5 books **or** 1 (sml) square / 1 box = 0.5 books		4	M1	for a correct calculation of frequency density **or** a correct value on the frequency density axis **or** use of their own linear frequency density scale to find the area of at least one of the third, fourth or fifth bars **OR** or a correct measure of scale Implied by a correct frequency for the third (250), fourth (125) or fifth (50) bar	M3 for any complete method that relies only on counting squares, eg counting large squares: $\frac{4+10+2}{6+18+20+10+4}$ Allow one error in number of squares in each of numerator and denominator but do not allow any omissions Must use a consistent method for the award of more than one mark
	eg using frequency densities 75 + (“2.25” × 100) + (“1” × 250) + (“2.5” × 50) + (“0.25” × 200) (= 75 + 225 + 250 + 125 + 50 = 725) **OR** eg using a measure of scale (eg large squares) (6 + 18 + 20 + 10 + 4) × “12.5” (=725) oe **OR** eg total no. of large squares = 6 + 18 + 20 + 10 + 4 (=58) **or** total no. of sml squares = 150 + 450 + 500 + 250 + 100 (=1450)			M1	for a method to work out the total number of books **OR** the total number of squares Allow one error in a frequency density value, class width value or number of squares but not an omission Allow ft their own linear frequency density scale	
	eg using frequency densities (“1” × 50) + (“2.5” × 50) + (“0.25” × 100) (= 50 + 125 + 25 = 200) **OR** eg using a measure of scale (eg large squares) (4 + 10 + 2) × “12.5” (=200) oe **OR** eg no. of large squares = 4 + 10 + 2 (= 16) **or** no. of sml squares = 100 + 250 + 50 (= 400)			M1	for a method to estimate the number of books between 400g and 600 g **OR** the total number of squares between 400 g and 600 g Allow one error in a frequency density value, class width value or number of squares but not an omission Allow ft their own linear frequency density scale	
	Correct answer only scores full marks (unless from obviously incorrect working)	$\frac{200}{725}$		A1	oe eg $\frac{8}{29}$ or any correct decimal or correct percentage rounded or truncated to 2sf. NB $\frac{200}{725}$ = 0.27(58…)	
						Total 4 marks