

Q1. (2022)

(A)

Q	Answer	Mark	Comments
14(a)	Alternative method 1		
	$375 + 400 + 1475$ or 2250 or 13 seen or $\frac{59}{90}$ seen or [0.65, 0.66] seen	M1	oe for 375 allow 350 or 370 or 380 or 400 for 1475 allow 1450 or 1470 or 1480 or 1500 eg $400 + 400 + 1500$ any estimated values must be seen eg only seeing 2300 is M0
	$\frac{1475}{375 + 400 + 1475} \times 29250$ or 1475×13 or $[0.65, 0.66] \times 29250$ or [19012.5, 19305]	M1dep	oe for 375 allow 350 or 370 or 380 or 400 for 1475 allow 1450 or 1470 or 1480 or 1500 for 29250 allow 29000 or 29200 or 29300 or 29500 or 30000
	19 175	A1	
	Alternative method 2		
	[234, 238]	M1	may be on the diagram
	$\frac{\text{their } [234, 238]}{360} \times 29250$ or their [234, 238] $\times 81.25$	M1dep	oe for 29250 allow 29000 or 29200 or 29300 or 29500 or 30000
	19 175	A1	
	Additional Guidance		
	$375 + 400 + 1475 = 2250$ If they subsequently estimate 2250 no further marks can be scored	M1	
	Answer 19 175 is M1M1A1 unless it comes from rounding or truncating eg1 Alt 1 $0.65555 \times 29250 = 19175$ eg2 Alt 1 $0.65555 \times 29250 = 19174.8$ Answer 19 175	M1M1A1 M1M1A0	
	Alt 2 if their angle is outside the range [234, 238]	M0M0A0	