

Q1. (2018)

25	$\frac{x}{x+35} = \frac{5}{12}$ or $\frac{35}{x+35} = \frac{7}{12}$ or $\frac{x}{35} = \frac{5}{7}$ or $x : 35 = 5 : 7$ or links $\frac{7}{12}$ to 35	M1	oe eg $x + 35 = 60$ or links $\frac{1}{12}$ to 5
	$12x - 5x = 175$ or $7x = 175$ or $420 - 245 = 7x$ or $(x \approx) 25$ or $\frac{25}{60}$	M1dep	oe collects terms 25 may be seen in section labelled x on Venn diagram
	$(y \approx) 150 - 47 - 35 - \text{their } 25$ or 43	M1dep	dep on M2 43 may be seen in section labelled y on Venn diagram
	$\frac{43}{150}$ or 0.286... or 0.287 or 0.29 or 28.6...% or 28.7% or 29%	A1	
	Additional Guidance		
Accept $\frac{7}{12} = 35$			M1
Ignore any incorrect cancelling or change of form (fraction, decimal or percentage)			

Q2. (2024)

(A)

Q	Answer	Mark	Comments
24(a)	$(k \approx) 21 \times 6$ or $(k \approx) 126$	M1	oe may be implied eg $y = \frac{126}{x}$
	10.5 or $\frac{21}{2}$	A1	oe value eg $\frac{126}{12}$ ignore units
	Additional Guidance		
	Ignore simplification or conversion attempt after correct answer seen		
	10.5 only seen embedded eg $10.5 \times 12 = 126$		M1A0

(B)

Q	Answer	Mark	Comments
24(b)	$21 = A \times \frac{1}{3}$ or $(A \approx) 21 \times 3$ or $(A \approx) 63$	M1	oe eg $21 = A \times \left(\frac{1}{3}\right)^{\frac{1}{6} \times 6}$ implied by $(y \approx) 7$
	$(y \approx) 7$ and middle box ticked	A1ft	ft decision using their 10.5 in (a) must have $(y \approx) 7$
	Additional Guidance		
	A correct value is sufficient for showing working		
	Decision may be indicated by selecting a box or a statement in the working lines		
	Decision cannot be implied only by an inequality		

