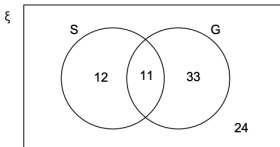


Q1. (2018)

22	A $\cup$ B'	B1	
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Q2. (2020)

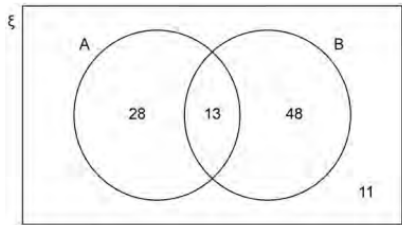
	Answer	Mark	Comments
	12 in correct position	B1	
	24 in correct position	B1	
	11 in correct position or 33 in correct position or their value in G only is three times their value in the intersection or their four values sum to 80	B1ft	ft $\frac{1}{4} \times (80 - 12 - \text{their } 24)$ ft $\frac{3}{4} \times (80 - 12 - \text{their } 24)$ for this mark allow non-integers or values rounded or truncated to the nearest integer
7	12, 24, 11 and 33 in correct positions	B1	
Additional Guidance			
Mark the Venn diagram only			
			B1B1B1B1

Q3. (2022)

Q	Answer	Mark	Comments
	Valid criticism referring to one or both sets not being labelled	B1	eg the circles should be labelled or the labels are missing
	Valid criticism referring to the numbers not adding to 98	B1	eg the numbers add to 99 or 48 should be 47 SC1 no written criticisms, but circles labelled correctly and 48 changed to 47 on diagram
Additional Guidance			
Accept both statements written in one criticism			
For more than two criticisms mark the best two unless contradicted			
Condone written corrections as criticisms eg Add labels			B1
Criticism 1 - There is no A label and Criticism 2 - There is no F label			B1B0
Didn't label the diagram			B1
There are no subjects			B1
The diagram doesn't have labels/headings/titles			B1
The diagram doesn't have a label/heading/title			B0
It doesn't show how many study French			B0
48 is wrong/one of the numbers is wrong			B1
There's an extra student			B1
It doesn't add up correctly/the total is wrong			B1
It doesn't add up			B0
The numbers are wrong			B0
Do not accept an incorrect statement eg The number doing Art and French should be 47			B0
If a value is used as evidence it must be correct eg the total is 100, not 98			B0

Q4. (2023)

11 The Venn diagram represents 100 items.



(A)

Q	Answer	Mark	Comments
11(a)	$\frac{13}{100}$ or 0.13 or 13%	B1	oe fraction, decimal or percentage

(B)

Q	Answer	Mark	Comments
11(b)	$\frac{59}{100}$ or 0.59 or 59%	B1	oe fraction, decimal or percentage SC1 answers 13 in (a) and 59 in (b) or $\frac{13}{x}$ in (a) and $\frac{59}{x}$ in (b) where x is an integer ≥ 59

(C)

Q	Answer	Mark	Comments
11(c)	$\frac{89}{100}$ or 0.89 or 89%	B1	oe fraction, decimal or percentage SC1 answers 13 in (a) and 89 in (c) or $\frac{13}{x}$ in (a) and $\frac{89}{x}$ in (c), where x is an integer ≥ 89 or answers 59 in (b) and 89 in (c) or $\frac{59}{x}$ in (b) and $\frac{89}{x}$ in (c), where x is an integer ≥ 89
Additional Guidance			
13 in (a) and 59 in (b) and 89 in (c) scores 0, SC1, SC1			