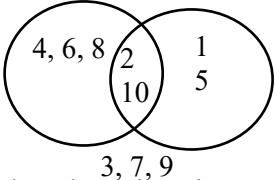


Venn Diagrams

November 2021 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
21	Venn Diagram	C1 C1 C1	for one correct region for two correct regions for all regions correct	<div data-bbox="1599 212 1991 448" data-label="Diagram"> </div> <p data-bbox="1576 472 2085 536">Ignore all entries except the region you are marking for each mark</p>

June 2020 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
22 (a)	Venn diagram	M1	for correct numbers in at least one region	Ignore all entries except the region you are marking for each method mark  Need not be written in correct form at this stage eg could be a ratio 2 : 10 Repeated digits in the diagram should be counted as 2 elements Accept any equivalent fraction, decimal form 0.2 or percentage form 20%
		M1	for correct numbers in at least two regions	
		A1	for all regions correct	
(b)	$\frac{2}{10}$	M1	for $\frac{a}{10}$ where $0 < a < 10$ and a is an integer or $\frac{2}{b}$ where $b > 2$ and b is an integer or ft diagram	
		A1	$\frac{2}{10}$ oe or ft diagram	

November 2024 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
23	statements	<p>C1</p> <p>C1</p>	<p>for identifying that the number 17 should only be in the intersection</p> <p>Acceptable examples 17 should only be in the middle Take 17 out of (set) A only appropriate 17 crossed out on the Venn diagram</p> <p>Not acceptable examples Tom should put 17 in B Should have two 17's in the middle Take 17 out of (set) A Needs to remove a 17 17 is on twice</p> <p>for identifying that the number 1 is missing from the diagram</p> <p>Acceptable examples 1 should be in the outside region He should put 1 outside the circles Tom needs to put the number 1 on the diagram include 1 (outside $A \cup B$) 1 added to the diagram in the correct region</p> <p>Not acceptable examples Add the remaining numbers There are missing odd numbers between 0 and 20 put all the odd numbers outside the circles add the odd numbers in the \mathcal{E} box include the even numbers 1 should be outside the Venn diagram</p>	<p>Accept correct descriptions using correct set notation for both marks Diagram may be used to support statements</p>

June 2024 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
23 (a)	10, 11, 13, 14, 16, 17	B1	cao	
(b)	$\frac{5}{9}$	M1	for identification of 10, 12, 14, 15, 18 or for $\frac{a}{9}$ where $1 \leq a \leq 8$, a an integer, or $\frac{5}{b}$ where $b > 5$, b an integer or for incorrect form, eg 5 : 9	
		A1	oe	Accept any equivalent fraction, decimal form, 0.55(5...) or 0.56 or percentage form, 55(.5...) % or 56%

June 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
24 (a)	Venn diagram	B3	for a fully correct Venn diagram	Ignore all entries except the region you are marking for each method mark
		(B2)	for two or three of the four regions correct)	
		(B1)	for just one of the four regions correct)	
(b)	$\frac{7}{10}$	M1	(ft diagram) for $\frac{a}{10}$ where $0 < a < 10$ and a is an integer or $\frac{7}{b}$ where $b > 7$ and b is an integer or $1 - \frac{3}{10}$ or $7 : 10$	Repeated digits in the diagram should be counted as 2 elements
		A1	(ft diagram) for $\frac{7}{10}$ oe	Accept any equivalent fraction, or 0.7 or 70%

