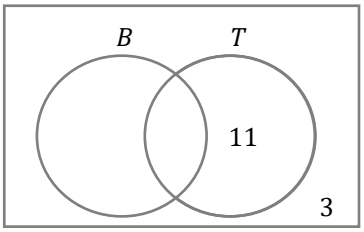
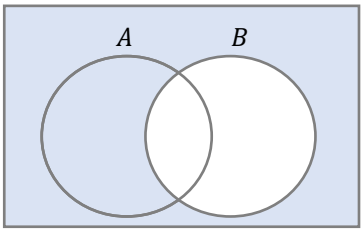
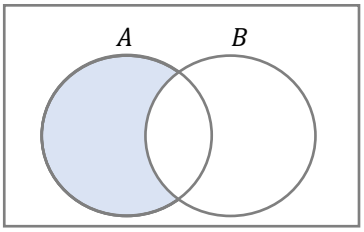
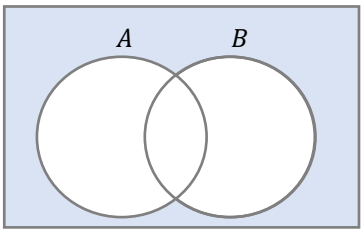
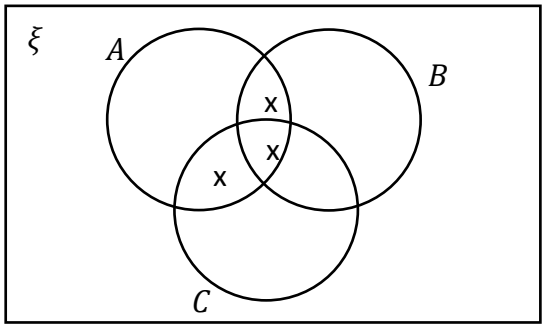
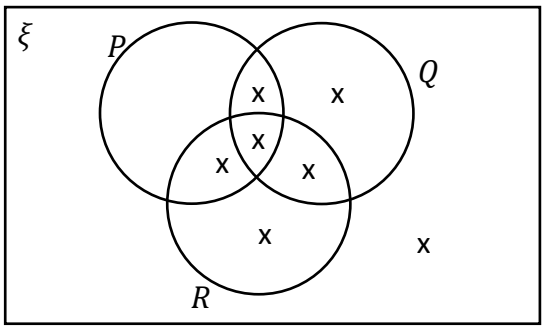
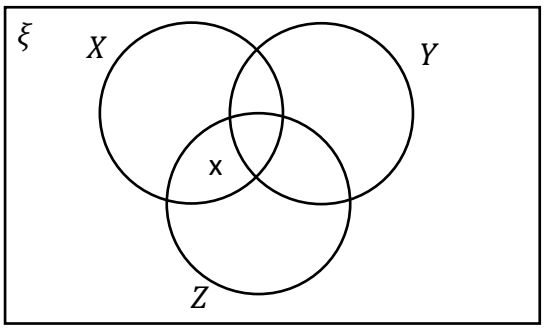
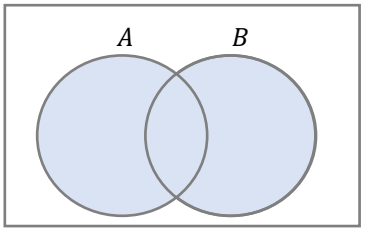
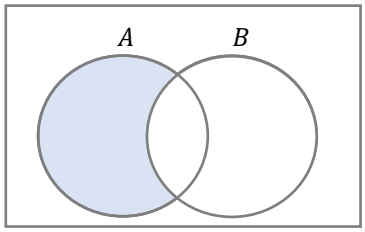
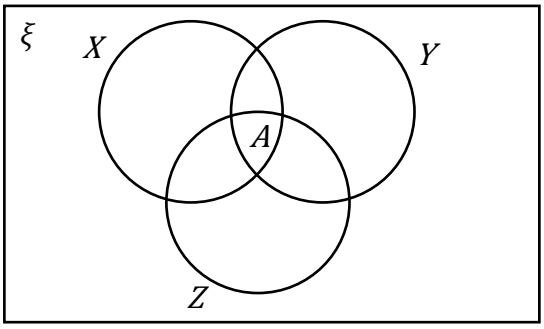
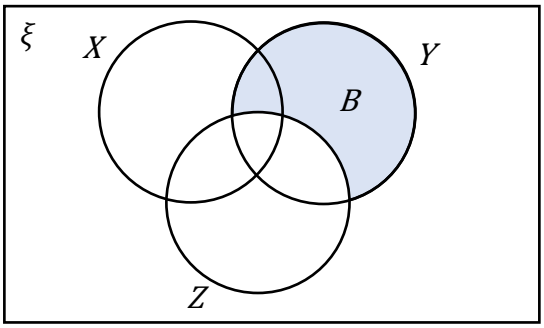
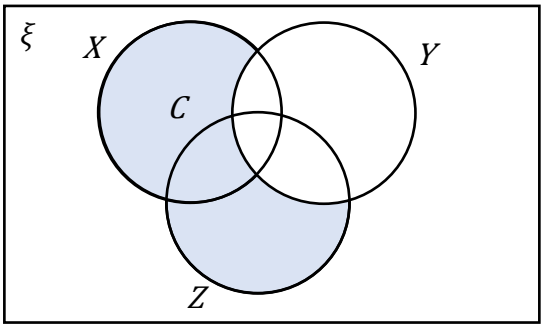
Set Notation Mark Scheme		
1(a)	Belonging to both A and B	[1]
1(b)	Belonging to B or not belonging to A	[1]
1(c)	$\{2\}$	[1]
2(a)	All values not in A $1, 9, 25, 49$	[1] Numbers just in section B
2(b)	Intersection $4, 16, 36$	[1] Numbers in the intersection of A and B
2(c)	List all the numbers. Allow "All Numbers"	[1]
3(a)		[1] Calculation that there are now 21 children and 11 choose textiles [1] 3 on the outside
3(b)	$P(B \cap T)$ and $P(T')$	[1] both correct answers circled [1] no incorrect answers circled
4(a)		[1] Everything not in B
4(b)		[1] In A, but not in B
4(c)		[1] Everything not in A and B

Turn over ►

5(a)		[1]
5(b)		[1]
5(c)		[1]
6(a)	$x + 6 + 2x + 3x + 12 + 4 = 64$	[1] Identify that the total value inside the Venn diagram sums to 64
	$6x = 42$ $x = 7$	[1]
6(b)	$P(A) = \frac{x + 6 + 2x}{64} = \frac{27}{64}$	[1]
7(a)		[1] $P(A \cup B)$ means A or B

Turn over ►

7(b)		[1] $P(A \cap B')$ means A and not B
8(a)		[1] The intersection of all 3 circles
8(b)		[1] Inside Y and not Z
8(c)		[1] Inside X or Z and not Z

END