Stratified Sampling Mark Scheme		
1(a)		[2]
1(b)	Total Population size is $350 + 210 = 560$	[1] Total population
	$\frac{80}{560} \times 100 = 14\%$ (2 s.f.)	[1] Final answer
2		[2] Correct calculations [1] Round properly to nearest whole number
3		[1] 3 correct values [1] 4 correct values [1] All correct
4(a)		[1] for correct percentage 6.25% [1] Correct sample values [1] Correct GCSE values
4(b)	This could be due to rounding to the nearest whole number:	[1] Mention effect of rounding
	$65 \times 0.0625 = 4.0625$ while $4 \div 0.0625 = 64$	[1] Example shown

1(a)

Lunch choice	School lunch	Lunch from home
Number at school	210	350
Number in sample	30	50

2

Day	Number in Sample
Monday	6
Tuesday	9
Wednesday	10
Thursday	9
Friday	6

3

Age Bands	Number of People
$16 - 25$	157
$26 - 35$	246
$36 - 45$	372
$46 - 55$	396
$56 - 65$	329

4(a)

Exam Subject	GCSE	Sample
Maths	96	6
English	80	5
Physics	75	5
History	65	4
Physical Education	64	4

Turn over ►

5(a)		City	Population	Sample
		Belfast	220	4
		Cardiff	468	10
		Edinburgh	523	10
		Liverpool	872	17
		Manchester	420	8
		London	7500	150

(5(a) mark scheme:)

[1] Multiply each population value by 0.02 to find 2%

[1] Round properly to nearest whole number

5(b)	Rounding	[1]
	199 in sample	[1]
	2% of population is 200 **or** there is a difference of 1 between expected and actual sample size	[1] 200 must be given to gain the mark

6	Countries	Medals by country	Sample
	USA	121	17
	GBR	63	9
	CHI	70	10
	RUS	56	8
	GER	42	6

(6 mark scheme:)

[1] Ratio is established of $7:1$

[1] Ratio is applied to find missing values

[1] Rounding is correct

[1] Subtraction is used to find RUS

END