

Mean, medium, Mode and Range Mark scheme		
1	Mode = 8	[1]
	Median = 8	[1]
	Mean = 8.8	[1] Answer must be to 1 dp
	Range = 19	[1]
2	$2 \times 6 \text{ kg} + 2 \times 16 \text{ kg} = 44$, $\frac{44}{4} \neq 12$ $3 \times 6 \text{ kg} + 2 \times 16 \text{ kg} = 50$, $\frac{50}{4} \neq 12$	[1] Using trial and improvement e.g. $2 \times 6 \text{ kg} + 1 \times 16 \text{ kg} = 28$
	$2 \times 6 \text{ kg} + 3 \times 16 \text{ kg} = 60 \text{ kg}$ $60/5 = 12 \text{ kg}$	[1] Correct calculation
	Two 6 kg bags and three 16 kg bags.	[1]
3 (a)	Median = 1.3 kg	[1] Answer must be to 1 dp
	Mean = $10.8 \div 7 = 1.5 \text{ kg}$	[1] Answer must be to 1 dp
	Mode = 1.5 kg	[1] Answer must be to 1 dp
	Range = 0.9 kg	[1] Answer must be to 1 dp
3(b)	Total weight of seven rabbits = 10.8 kg	[1] Finding total weight
	$5 \times 1.6 \text{ kg} = 8 \text{ kg}$	[1] Finding remaining weight
	Total weight of two removed rabbits = $10.8 - 8 = 2.8 \text{ kg}$ So 1.1 kg and 1.7 kg or 1.5kg and 1.3kg	[1] Full marks for 2.8kg
4	Mean pay = $50.64 \div 6 = \text{£}8.44$	[1]
	Median = $\text{£}8.46$	[1]
	Mode = $\text{£}8.48$	[1]
	Yes, the mean, median and mode suggest that Sarah is correct to think that most of her friends are paid more.	[1] Suitable explanation
5(a)	3,3,3,3,4,4,5,6,7,7,7	[1] Correct values from graph
	$\frac{3 + 3 + 3 + 3 + 4 + 4 + 5 + 6 + 7 + 7}{10}$	[1] Correct calculation
	Mean = 4.5 minutes	[1] Final answer
5(b)	Range = 4 minutes	[1]
6(a)	5, 7, 9,	[3] 1 mark for each.
6(b)	Card number 6	[1]

END