

Mean and Range L1 Mark Scheme		
<b>1(a)</b>	$9 + 5 + 1 + 4 + 8 + 6 + 2 + 11 + 4 + 3 = 53$ <b>and</b> $53 \div 10$	[1]
	5.3	[1]
<b>1(b)</b>	10	[1]
<b>2(a)</b>	$11 + 2 + 6 + 7 + 9 + 7 + 8 + 4 + 12 + 10 + 5 + 3 + 7 + 8 + 6 = 105$ <b>and</b> $105 \div 15$	[1]
	7	[1]
<b>2(b)</b>	10	[1]
<b>2(c)</b>	No, because the minimum score for two dice is 2 and the maximum score is 12	[1]
<b>3(a)</b>	$29 + 34 + 32 + 26 + 25 + 37 + 30 + 27 + 22 + 26 + 29 + 31 = 348$ <b>and</b> $348 \div 12$	[1]
	29 mph	[1]
<b>3(b)</b>	15 mph	[1]
<b>4(a)</b>	$8.3 + 9.8 + 9.1 + 11.1 + 9.5 + 12.5 + 10.8 + 13.2 + 10.2 = 94.5$ <b>and</b> $94.5 \div 9$	[1]
	10.5 kg	[1]
<b>4(b)</b>	4.9 kg	[1]
<b>4(c)</b>	The mean would increase as the new pumpkin's weight is greater than the original mean.	[1]
	The range wouldn't change as the new pumpkin's weight is not greater than the heaviest pumpkin from the original list.	[1]
<b>5(a)</b>	$16 + 22 + 34 + 25 + 62 + 36 + 26 + 12 + 29 + 9 + 41 + 55 + 34 + 19 = 420$ <b>and</b> $420 \div 14$	[1]
	30 years old	[1]

<b>5(b)</b>	53	[1]
<b>5(c)</b>	The range is decreased.	[1]
<b>6(a)</b>	$4200 + 3650 + 5200 + 2950 + 3900 + 2450 + 6000$ $= 28350$ <b>and</b> $28350 \div 7$	[1]
	£4050	[1]
<b>6(b)</b>	£3550	[1]
<b>6(c)</b>	The mean would increase as £2950 is less than the original mean.	[1]
<b>7(a)</b>	$11.1 + 8.5 + 5.8 + 10.6 + 10.9 + 11 + 5.5 + 6.1 + 7.9$ $= 77.4$ <b>and</b> $77.4 \div 9$	[1]
	8.6 g	[1]
<b>7(b)</b>	5.6 g	[1]
<b>8</b>	22°C	[1]
<b>9</b>	$182 \div 13$	[1]
	14 friends	[1]