

Topic Test 1 Mark Scheme

Statistics recap and review - Higher

Q	Answer	Mark	Comments
1(a)	$45 \times (800 - 255)$	M1	
	245.25	A1	
1(b)	140p	B1 ft	ft their line of best fit [125, 150]
1(c)	No, as production costs would never be zero or negative and 600 is beyond the range of the graph	B1	oe
2	Values of Monday 10, Tuesday 18, Wednesday 12, Thursday 14, Friday 18	B1	
	Bar chart or vertical line graph drawn and fully labelled	B1	
3	$6 \times 210 - (208 + 367 + 156 + 132 + 98)$	M1	
	299	A1	
4(a)	Table 40 and 90	B2	B1 each
	Histogram, bar from 110 to 120 to height of 3 and bar from 130 to 150 to height of 4.5	B2	B1 each
4(b)	130 th value mentioned and	B1	
	$15 + 30 + 40 + 45 = 130$	B1	oe
4(c)	That the data is spread out proportionately within the class interval	B1	oe

Q	Answer	Mark	Comments
5(a)	[37, 38] read from graph	B1	
	[24, 26]	B1	
5(b)	That the sample is representative but as it is only meat eaters this is unlikely and as meat is a factor in high cholesterol then the actual percentage may be lower	B1	
5(c)	The vegetarian had a lower cholesterol on average as their median was less	B1	
	The meat eaters has a more consistent cholesterol level as their IQR was lower.	B1	