Question Number	Scheme	Marks
2 (a)(i)	$Q_2 = 57$	B1
(ii)	$Q_1 = 45$ $Q_3 = 63$	B1 B1
		(3)
(b)	'63'+1.5('63'−'45')[=90] or '45'−1.5('63'−'45')[=18]	M1
	= 90 or = 18	A1ft
	16 and 94 [are outliers]*	A1*
		(3)
(c)	A boxplot drawn with 2 whiskers	M1
	Q_1, Q_2 and Q_3 plotted correctly	A1ft
	Whiskers drawn correctly	A1ft
	Outliers marked at 16 and 94	A1
		(4)
(d)	The **median/Q_2** for February is less/lower than the **median/Q_2** for December oe	B1ft
	The **IQR/range** for February is less/lower than December (allow similar) oe	B1ft
	For a correct interpretation of either average or spread e.g. • on average February weigh less than December oe • the weights of February are less varied/little change in variability than the weights of December oe • They weighed more later in the year oe • Most of the distribution has shifted right, implying that most kangaroos have gained weight but some appear to have lost weight.	B1ft
		(3)

	Notes	**Total 13**
(a)(i)	**B1**	Cao
(ii)	**B1**	Cao
	B1	Cao
(b)	**M1**	For use of either $Q_3 + 1.5(Q_3 - Q_1)$ or $Q_1 - 1.5(Q_3 - Q_1)$ ft part (a)
	A1ft	For either 90 or 18 ft part (a)
	A1*	For identifying both outliers with no incorrect/missing working (This can ft part (a))
(c)	**M1**	A boxplot drawn with 2 whiskers
	A1ft	For Q_1, Q_2 and Q_3 plotted correctly ft part (a)
	A1ft	Whiskers drawn at 18 and 90 ft part (b) **or** 23 and 86
	A1	Outliers marked at 16 and 94
(d)	**B1ft**	A correct comparison of medians ft their boxplot drawn or part (a) (No figures are required but if quoted then they need to be correct ft) Must mention the word median/Q_2
	B1ft	A correct comparison of range/IQR ft their boxplot drawn or part (a) (No figures are required but if quoted then they need to be correct ft) Must mention either IQR or range
	B1ft	A correct interpretation of either the average or the spread ft their boxplot drawn or part (a)
		NB Ignore any reference to skew or outliers