

6	(a)		Population because all the available data are used	E1	2.4	This is an 'explain' question, so we do need 'population' and a correct justification. Accept 'population as it is data from every single day the phone was used' scores 'Population as it is every day the phone is used' scores
				[1]		
6	(b)		Negative skew	B1	1.2	'Negative' is B0
				[1]		

Question			Answer	Marks	AO	Guidance
6	(c)		Q ₃ = 58 <u>or</u> Q ₁ = 42 identified IQR = 16	B1 B1	1.1 1.1	‘IQR = 16’ implies B1B1
				[2]		
6	(d)		42 – 1.5 × 16 = 18 Smallest value is 19 which is not an outlier, so no outliers in lower tail	M1 FT (c) A1	1.1a 1.1	Ignore checking of upper tail For calculating $Q_1 - 1.5 \times IQR$ for their values Comparison of lower bound with 19 and conclusion e.g. ‘18 < 19 or 19 > 18 (or equivalent in words) so no’ etc If they calculate 18 then and mention 19 and ‘no’ then A1 ‘..18 so no as all values > 18’ is A1 ‘18 so no as all values more than 18’ is A1 ‘18 so no etc’ is A0 as they need to compare to smallest value (directly or indirectly) and explain why. Command word ‘determine’ - justification needed
				[2]		