Sample data

Sheet 6

The data in the table comes from the 2013 Census at School survey. It is a random sample of the responses by Year 7 students in Queensland.

The relevant questions asked were:

- What is your arm span? (nearest cm)
- What is the length of your right foot without a shoe? (nearest cm)
- How many hours sleep do you usually get on a school night?
- What is your resting pulse rate?

Arm span (cm)	Length right foot (cm)	Sleep on school night (hrs)	Resting heart rate (beats/min)
140	22	10	90
134	27	8	62
156	26	10	74
144	9	11	96
155	22	9	85
141	24	11	67
158	24	10	71
63	32	8	50
147	22	10	60
150	27	9	87
155	23	11	75
152	23	10	68
143	24	10	94
120	13	9	61
162	25	9	55
151	22	10	75
99	23	9	80
157	21	11	43
150	19	9	12
141	20	10	65
173	24	10	70
163	23	7	73
160	24	7	15
145	23	11	73
165	24	9	62

Data sourced from: Census@School (Australian Bureau of Statistics).

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In some sets of data, you may notice anomalies. An anomaly is something that is different from the regular or expected.

Did you notice any data anomalies in this data?

What do you think may have caused any observed anomalies?

How might a data anomaly influence a set of data?

Discuss your ideas with another person.