Numeracy
Making Sense of Data

Joseph Chamberlain Sixth Form College

Task 1 – Tables from Data Set

Gender	Height (m)	Weight (kg)	Gender	Height (m)	Weight (kg)	Gender	Height (m)	Weight (kg)
Male	1.63	60	Female	1.70	48	Male	1.60	47
Male	1.75	45	Female	1.62	54	Male	1.61	47
Female	1.83	60	Female	1.56	56	Female	1.75	56
Female	1.67	52	Female	1.73	58	Female	1.63	45
Male	1.80	49	Male	1.63	40	Male	1.91	62
Male	1.66	70	Male	1.80	77	Male	1.68	50
Male	1.90	70	Male	1.60	50	Male	1.65	54
Female	1.60	54	Male	1.55	65	Female	1.75	60
Female	1.52	45	Female	1.62	54	Female	1.75	60
Female	1.62	56	Female	1.72	51	Male	1.68	59
Female	1.55	36	Male	1.85	73	Female	1.53	65
Female	1.80	60	Female	1.65	66	Female	1.63	54
Female	1.67	66	Male	1.72	58	Male	1.60	51
Male	1.67	66	Male	1.77	57	Male	1.62	51
Male	1.70	57	Female	1.72	51	Male	1.81	56
Female	1.60	56	Male	1.32	45	Male	1.65	50
Male	1.71	57	Male	1.75	68	Male	1.79	72
Male	1.52	60	Female	1.65	54	Female	1.73	45
Male	1.66	66	Female	1.65	54	Female	1.72	60
Male	1.60	9	Female	1.65	42	Female	1.68	48
Female	1.63	44	Female	1.68	48	Female	1.53	51
Female	1.63	44	Female	1.55	55	Male	1.80	72
Female	1.40	45	Male	1.65	64	Male	1.8	72
Female	1.73	51	Male	1.70	60	Male	1.8	72
Male	1.80	60	Male	1.62	52	Female	1.62	51
Female	1.72	51	Female	1.47	45	Female	1.90	40
Male	1.72	63	Female	1.79	52	Male	1.58	54
Male	1.75	56	Female	1.61	54	Male	1.73	60
Male	1.91	82	Male	1.62	52	Male	1.85	73
Male	1.77	57	Male	1.62	56	Male	1.73	48
Female	1.68	54	Female	1.61	54	Male	1.55	50
Female	1.73	64	Male	1.71	56	Female	1.58	54
Female	1.73	50	Female	1.71	54	Female	1.60	50
Female	1.63	47	Male	1.55	57	Female	1.65	54
Female	1.72	56	Female	1.52	38	Male	1.74	64
Female	1.62	48	Female	1.70	48	Female	1.37	30
Female	1.56	50	Male	1.57	40	Male	1.82	66
Male	1.8	60	Male	1.67	50	Female	1.72	50
Male	1.55	64	Male	1.71	60	Female	1.63	72
Female	1.75	57	Male	1.88	75	Female	1.80	60
Male	1.63	50	Male	1.55	54	Female	1.65	54
Male	1.86	56	Male	1.51	40	Female	1.60	48
Female	1.73	51	Male	1.78	67	Female	1.03	45
Male	1.81	72	Female	1.76	52	Female	1.78	52
Male	1.75	60	Female	1.70	50	Female	1.55	48
Male	1.72	58	Female	1.70	50	Female	1.51	36
Female	1.62	48	Male	1.70	50	Female	1.63	52
Male	1.54	57	Female	1.75	56	Female	1.73	65
Male	1.54	66	Female	1.68	47	Male	1.79	75
Female	1.69	51	Male	1.6	38	Male	1.85	70
Female	4.65	53	Male	1.69	5	Male	1.62	63
Female	1.63	48	Male	1.77	72	Male	1.62	63
Male	1.91	62	Male	1.65	54	Female	1.73	65
Male	1.68	50	Female	1.75	60	Male	1.79	75

1. Using EXCEL produce and correctly title a table showing the heights and weights of a selection of 30 boys from the given data set.

2. Using paper, a pencil, ruler and pen draw and correctly label a table showing the heights and weights of a selection of 30 girls from the data set.

3. Briefly describe how you made your selections.

Make sure the data items you select are sensible, if not replace the rogue item.

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Task 2 – Statistical Measures & Diagrams

1. Using your selection of data from Task 1, the boys' heights and weights use EXCEL to find the following:
   a) the median boys' height
   b) the mean boys' weight

   PRINT OUT THE FORMULAE YOU USED TO DO PARTS a) AND b)

   Produce the following using EXCEL:
   a) a tally chart with sensible groups to illustrate the heights or weights of boys
   b) a fully labelled pie chart from the data in your tally chart.
   c) a fully labelled bar chart from the data in your tally chart.

2. Again using your selected data from task 1, this time on the girls' heights and weights, find BY HAND WITHOUT THE USE OF THE COMPUTER:
   a) the median girls' height
   b) the mean girls' weight

   SHOW THE WORKING OUT YOU USED TO DO PARTS a) AND b)

   By hand produce:
   c) a tally chart with sensible groups to illustrate the heights or weights of girls.
   d) a fully labelled pie chart from the data in your tally chart.
   e) a fully labelled bar chart from the data in your tally chart.

3. Give a brief written explanation of what each graph you have drawn shows and what each measure you have worked out means, in the context of your selected data set.

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