

- 4

[5]

①

- 1

18 750	30 500	125 000	42 500	25 000
26 000	52 500	23 000	27 500	19 500
25 500	33 000	30 000	21 500	29 000

- (a) Explain why a Wilcoxon signed-rank test may not be appropriate to test the company's claim in this case. [1]

.....

.....

.....

- (b)** Carry out a sign test at the 10% significance level to investigate the company's claim. [5]

Handwriting practice sheet with 20 horizontal dotted lines for tracing and writing.

- 6

- (a)

.....

- (b)

.....

Additional page

If you use the following page to complete the answer to any question, the question number must be clearly shown.

This image shows a full page of white paper with horizontal dashed lines, typical of primary-ruled notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings present.

- 5

Child	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>E</i>	<i>F</i>	<i>G</i>	<i>H</i>	<i>I</i>	<i>J</i>
Seaside	182	130	193	181	192	204	184	192	180	189
Cartoon	161	111	195	159	202	200	168	165	145	160

- (a)**

5

[3]

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.

It was later discovered that the experiment had been conducted such that each child completed the seaside puzzle first followed by the cartoon puzzle.

[1]

6

- 4

Over 50

Under 25

Carry out a Wilcoxon rank-sum test at the 5% significance level to test the researcher's claim.

