

Section A

Marked out of 60 60 minutes

1. This question is about Product Analysis. It is worth a total of 15 marks.

The photographs show a package for a children’s cutlery set. The questions that follow are about the package.



The Logo used on the package.

- The package is 100mm wide, 190mm long and 20mm thick.
 - There is a plastic window in the front.
- (a) The package is made from 500 micron folding boxboard.

(i) State **one** property of 500 micron folding boxboard that makes it the most suitable material for the package. [1]

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(ii) The boxboard is a DUPLEX board. State what this means. [1]

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(iii) Suggest a suitable plastic material for the window in the front of the package. [1]

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(b) Before starting to design the package a design specification was written.

State, with as much detail as you can, what you think was the most important design specification point for each of the following aspects.

(i) The purpose of the package. [2]

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(ii) The environmental impact of the package. [2]

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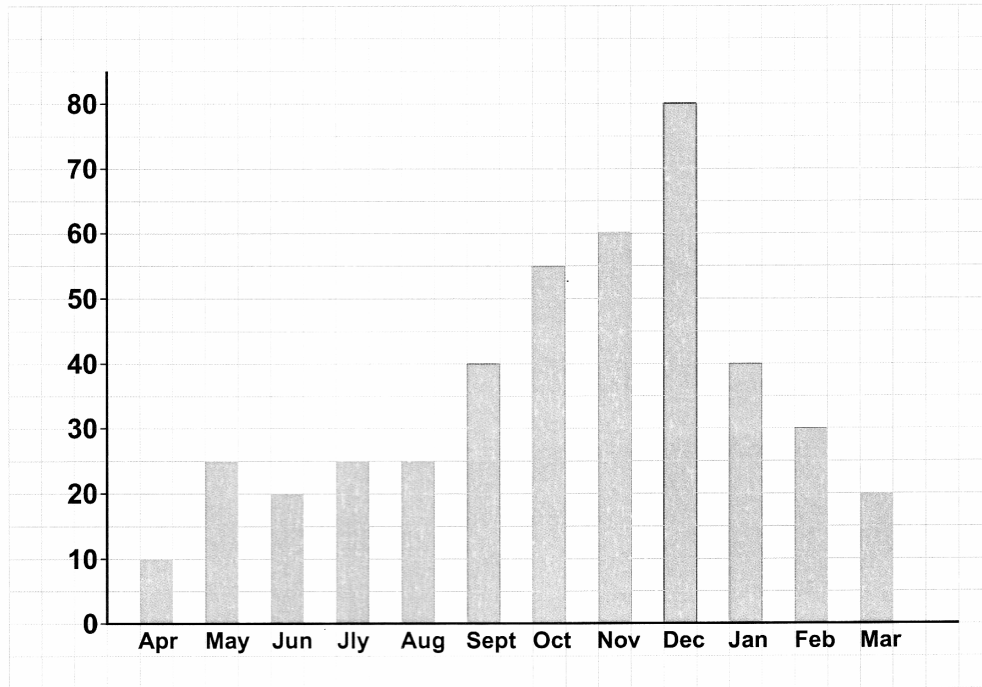
(c) The package was made using batch production.
Explain why this is the most suitable scale of production. [2]

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(d) Explain why the logo and the package will appeal to the parents of young children. [3]

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- (e) The chart shows the number of cutlery sets sold during each month of a year. Study the chart and answer the questions that follow.



- (i) State the total sales of the cutlery for the period October, November and December. [1]

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- (ii) Calculate what percentage of the year's sales has taken place for the period October, November and December. Show all your workings and state your answer to two decimal places. [2]

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