

- |                    |                |
|--------------------|----------------|
|                    | \$             |
| Direct Materials   | 157 500        |
| Direct Labour      | 270 000        |
| Variable Overheads | 54 000         |
| Fixed Overheads    | <u>125 000</u> |
|                    | <u>606 500</u> |

Additional costs, based on a production of 5000 units, are administrative overheads of \$140 000, of which 50% are fixed, and \$150 000 for advertising.  
Selling price is \$250 per unit.

**Option 1**  
To introduce overtime. This would require a pay rise of 50% per hour after the normal 30 hours. There would also be an additional cash payment of \$1.50 for each extra hour worked.

**Option 2**  
To hire new machinery for one year at a cost of \$50 000. This would leave all variable costs unchanged. This was already under consideration and \$17 500 had been spent on market research.

Option 3  
To buy in the extra units at a cost of \$200 each.

**(a)** Calculate the net profit on the 2003 production of 4500 units, assuming all were sold.

This image shows a full page of white paper with ten horizontal dashed lines, typical of primary school writing paper. The lines are evenly spaced and extend across the entire width of the page. There is no handwriting or other markings on the paper.

[10]

**(b)** Prepare statements showing the profitability of **each** of the three options.

[illegible]

