

4 DP Limited is a large manufacturing and retailing company. The following information is available.

Current selling price per unit	\$3.60
Current weekly sales	2 000 units
Contribution margin	45%

REQUIRED

(a) Calculate the **total** contribution that the company would earn over the four-week period.

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Additional information

The directors are planning to hold a four week price promotion on its most popular product.

The directors plan to reduce the selling price of the product by 20% over the whole four weeks of the promotion. They forecast that **additional** sales of the product will be 150% of the current sales.

The company will incur additional fixed costs of \$6000 to run the promotion. The directors forecast that unit variable costs will remain as they currently are.

REQUIRED

(b) Calculate the **total** forecast units to be sold if the directors proceed with the promotion.

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(c) Calculate the **additional** profit or loss if the company proceeds with the promotion.

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(d) Calculate the percentage by which current unit sales must increase for the promotion to break even.

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- (e) Advise the directors whether or not they should proceed with the promotion. Justify your answer using **both** financial and non-financial factors.

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- (f) Explain the purpose of cost–volume–profit analysis.

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- (g) State **four** assumptions of cost–volume–profit analysis.

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Additional information

The directors provide the following information for the manufacturing part of the business:

Budgeted labour hours	26 400 hours
Budgeted machine hours	10 500 hours
Actual labour hours	22 300 hours
Actual machine hours	11 400 hours
Budgeted overheads	\$445 000
Actual overheads	\$420 000

REQUIRED

(h) (i) Calculate an appropriate overhead absorption rate for the business.

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(ii) Explain **one** limitation of absorption costing.

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