

Section B Cost and Management Accounting

- 5 (a) Calculate the annual cash flows arising from the building of the extension. Use the column headings:

Year 0 Year 1 Year 2 Year 3 Year 4

\$ \$ \$ \$ \$

[8]

Cash inflows

	Year 0	Year 1	Year 2	Year 3	Year 4	
	\$	\$	\$	\$	\$	
Outlay	(265 000)					(1)
Inventory		(10 000)				(1)
Sales		84 000	84 000	84 000	84 000	(1) all
Purchases		(46 200)	(46 200)	(46 200)	(46 200)	(1) all
Expenses		(14 400)	(14 400)	(14 400)	(14 400)	(1) all
Parking		(2 000)	(2 000)	(2 000)	(2 000)	(1) all
Purchase consideration					310 000	(1)
Total	(265 000)	11 400	21 400	21 400	331 400	(1of) all

- (b) Calculate the net present value (NPV) of building the extension. Round calculations to the nearest dollar (\$).
- [8]

Net present value

	Year 0	Year 1	Year 2	Year 3	Year 4	Total
	\$	\$	\$	\$	\$	\$
Cash flow	(265 000)	11 400	21 400	21 400	331 400	(1of)
Discount factor	1	0.909	0.826	0.751	0.683	
Discounted cash flow	(265 000) (1of)	10 363 (1of)	17 676 (1of)	16 071 (1of)	226 346 (1of)	
Net present value (1)						5456 (1of)

- (c) Advise Harko whether he should proceed with the extension, based on your figures from (b).
- [2]

NPV is positive (1of). Therefore he should proceed (1of).

(1 mark) × two valid points

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