





## **CVP** Analysis

- Assumptions
- Methods in finding the answer
  - Equation
  - Graph
  - Breakeven formula
  - Computer



## **Major Costs**

- Major costs in running a business in Hong Kong?
  - For a restaurant?
  - For an airline?



## Example – A Noodle Shop under planning

- Monthly Rent = \$150,000
- Food Cost = 30% of revenue
- Staff Cost = 30% of revenue
- Kitchen equipment = \$600,000
- Renovation = \$500,000
- Lease term = 2 years
- 30 seats, average occupancy 60%, each customer stays for 20 minutes, open 14 hours a day



### CONSOLIDATED INCOME STATEMENT FOR THE YEAR ENDED 31 MARCH 2014

	Note	2014 HK\$'000	2013 HK\$'000 (Restated)
Revenue	6	6,990,463	6,394,089
Cost of sales	8	(5,971,366)	(5,485,896)
Gross profit	-	1,019,097	908,193
Other gains, net	7	19,099	61,319
Administrative expenses	8	(358,683)	(329,003)
Operating profit	-	679,513	640,509
Finance income	9	12,989	10,966
Share of profit/(loss) of associates		213	(4,243)
Share of loss of joint venture		(3,958)	(5,987)
Profit before income tax	-	688,757	641,245
Income tax expense	10	(106,677)	(100,282)
Profit for the year	-	582,080	540,963
Allocated as: Profit attributable to non-controlling interests		884_	1,000
Profit attributable to equity holders of the Company		581,196	539,963

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Source: Café De Coral



#### 8 EXPENSES BY NATURE

Expenses included in cost of sales and administrative expenses are analysed as follows:

	2014 HK\$'000	2013 HK\$'000 (Restated)
Cost of raw materials and consumables used Amortisation of leasehold land and land use rights Amortisation of intangible assets Depreciation of property, plant and equipment Operating lease rentals in respect of rented premises	2,273,687 3,017 8,730 262,055	2,090,196 3,014 9,742 243,837
(including contingent rentals of HK\$52,220,000 (2013: HK\$43,100,000))  Exchange gains, net Employee benefit expense Auditor's remuneration Electricity, water and gas Advertising and promotion expenses Provision for impairment of trade receivables Other expenses	759,569 (985) 1,862,229 5,591 400,472 86,052	709,485 (4,191) 1,693,371 5,109 375,042 82,231 55 607,008
	6,330,049	5,814,899

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Source: Café De Coral



## More Examples

- Ferry
- Clinic
- Concert....



# Example – B777-300ER from HK to Seoul

- Round-trip air ticket for one passenger is HK\$3,800 (all inclusive) and the fuel cost is 50% of revenue, staff cost 14% of revenue, each meal costs \$80 per passengers. By including the airport charges of landing at Hong Kong International Airport and at Incheon International Airport, calculate the profit margin in HK\$ for a round-trip B777-300ER full-loaded flight from Hong Kong to Seoul and return?
- What is the breakeven number of passengers?
- What are some of the invalid assumptions?