



## Introduction to the balance sheet

Victoria Clark CGMA Financial Analyst



## Types of financial statements



1. Income Statement
Income and Expenses



2. Balance Sheet
Assets, Liabilities and
Capital



3. Cash Flow Statement



4. Statement of Shareholder's Equity



### Assets and liabilities

Asset = Economic Resource

Can be used to make money

Liability = Economic Obligation

 Usually the obligation to pay something



## Equity

```
equity = assets - liabilities
```

**Equity**: portion of owner's interest in a property or business

```
# House example
house_cost = 100000
down_payment = 20000
mortgage = 80000
tot_equity = house_cost - mortgage
# Balance sheet
owners_equity = assets - liabilities
```





Mark's Gadget Sho	р	
Sales		1,000
Costs of Goods Sold	_	600
Gross Profit		400
Operating Expenses		
Selling and Admin	-	100
R&D Expense	_	30
Training	51	20
Total Operating Expenses	_	150
Net Profit	30	250

Mark's Gadget Shop	
Assets	
Bank	200
Debtors	50
Total Assets	250
Equity	100
Liabilities	
Loans	50
Creditors	100
Total Equity and Liabilities	250



	Mark's Gadget Shop	)	
Sales		(	1,000
Costs o	f Goods Sold	-	600
Gross P	rofit		400
Operat	ing Expenses		
	Selling and Admin	-	100
	R&D Expense	-	30
	Training	-	20
Total O	perating Expenses	-	<b>150</b>
Net Pro	ofit	*	250

Mark's Gadget Shop	
Assets	
Bank	200
Debtors	50
Total Assets	250
Equity	100
Liabilities	
Loans	50
Creditors	100
Total Equity and Liabilities	250



Mark's Gadget Shop	0
Sales Costs of Goods Sold Gross Profit	1,000 - 600 400
Operating Expenses  Selling and Admin  R&D Expense  Training  Total Operating Expenses	- 100 - 30 - 20 - 150
Net Profit	250

Mark's Gadget Shop	
Assets	
Bank	200
Debtors	50
Total Assets	250
Equity	100
Liabilities	
Loans	50
Creditors	(100)
Total Equity and Liabilities	250



Mark's Gadget Sho	р	
Sales		1,000
Costs of Goods Sold	_	600
Gross Profit		400
Operating Expenses		
Selling and Admin	-	100
R&D Expense	_	30
Training	51	20
Total Operating Expenses	_	150
Net Profit	30	250

Mark's Gadget Shop	
Assets	
Bank	200
Debtors	50
Total Assets	250
Equity	100
Liabilities	
Loans	50
Creditors	100
Total Equity and Liabilities	250





## Let's practice!





# Balance sheet efficiency ratios - Part 1

Victoria Clark CGMA Financial Analyst





### Debtors and creditors

- Sell now, get paid later
  - debtors
- Buy now, pay later
  - creditors



## The debtor days ratio

- How many days to receive payment from debtors
- Lower ratio is better
- Formula:
  - lacktriangledown  $Debtor\ Days = rac{EndingBalanceDebtors}{Sales}\ x\ DaysInFinancialYear$

```
ddays_ratio = (debtors_end/sales_tot) * 365
```



## Days payable outstanding (DPO ratio)

- How many days to pay our creditors
- Higher ratio is better
- Formula:
  - $lackbox{ } DPO = rac{EndingBalanceCreditors}{TotalCostOfGoodsSold} \ x \ DaysInFinancialYear$

```
dpo = (creditors_end/cogs_tot)*365
```





## Let's practice!





## Balance sheet efficiency ratios - Part 2

Victoria Clark CGMA Financial Analyst



## Days in inventory

#### The inventory question:

How much stock is too little, and how much is too much?

- How many days to sell our inventory
- Days in inventory ratio:

$$lackbox{ } DII = rac{AverageInventory}{TotalCostOfGoodsSold} \ x \ DaysInFinancialYear$$

Desired level depends on the industry

#### Asset turnover ratio

- Assets compared to sales generated
- Highly dependent on the industry
- Formula:

$$lacksquare Asset\ Turnover = rac{Sales}{TotalAverageAssets}$$

- Production company: high level of assets & low ratio
- Tech start up: low level of assets & high ratio





## Let's practice!