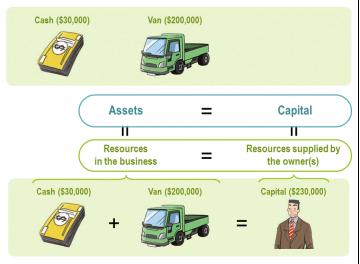
Chapter 2

The accounting equation

When all the resources are supplied by the owner(s)

O Assume Mr Tam, a sole proprietor, started a business and contributed \$30,000 in cash and a van valued at \$200,000 to his business.

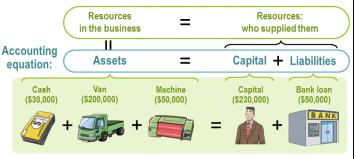


Other examples of assets:

- Land and buildings
- Furniture and fixtures
- Inventory
- Cash at bank

When the resources are supplied by the owner(s) and other people

O Later, Mr Tam's business borrowed \$50,000 from a bank to buy a machine.



- The total assets of the firm increased by \$50,000.
- Liabilities are the resources supplied to a business by people other than its owners.

Accounting equation:

Assets = Capital + Liabilities

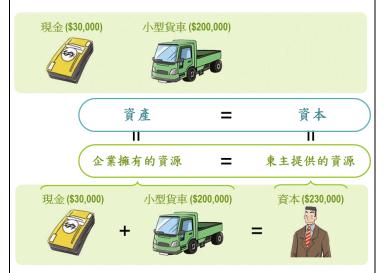
- Whenever a business transaction is made, it will have two effect(s) on the accounting equation.
- Yet both sides of the equation always have the same total.
- This is because we are dealing with the <u>resources</u> of a business from two different angles.

第2章

會計等式

企業東主提供所有資源

O 假設譚先生以 獨資經營 方式開設一家企業,投入 \$30,000 現金和一輛價值 \$200,000 的小型貨車。

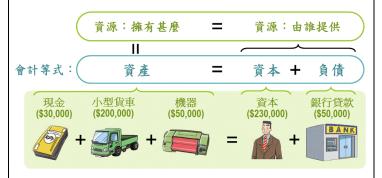


資產的例子還包括:

- 房地產
- 家具及裝置
- 存貨
- 銀行存款

企業東主和其他人士共同提供資源

O 譚先生後來向銀行借款\$50,000 購買一台機器。



- 企業的總資產增加\$50,000。
- 負債是指東主以外的人士所提供的資源。

會計等式:

資產=資本+負債

- 每項商業交易都會對會計等式帶來兩個影響。
- 等式兩邊的總和永遠維持相等。
- 重是因為我們是從兩個不同的角度來分析企業的 資源。

Accounting equation:

Assets = Capital + Liabilities

Rearranging

Capital = Assets – Liabilities = Net assets

The expanded accounting equation Revenues and expenses

O Businesses earn **revenues** and incur **expenses** in their day-to-day operations.

Revenues

Income earned from:

- · the sale of goods
- the provision of services to customers
- · other sources

Expenses

Costs incurred to generate revenue, such as:

- Rent
- · Staff salaries
- Water and electricity
- · Cost of goods sold

Profit (or loss) = Revenues - Expenses

- Revenues > Expenses ⇒ Profit ⇒ Capital ↑
- Revenues < Expenses \Rightarrow Loss \Rightarrow Capital \downarrow
- O Whether a profit (or loss) is made, it belongs to the owner(s) and will affect owner's/owners' equity (i.e. capital).

Drawings

- O **Drawings** refer to the resources of a business taken by its **owner(s)** for **personal** use.
- O Drawings must be separately recorded and will be deducted from the owner's/owners' capital.

The expanded accounting equation

Assets = Capital + (Revenues – Expenses) – Drawings + Liabilities

會計等式:

資產=資本+負債

可重新排序為:

資本=資產-負債 =淨資產

擴展了的會計等式

收益與費用

O 企業在營運期間會賺取收益及招致費用。

收益

向客戶銷售<u>貨品</u>或提供<u>服務</u>,或從其他途 徑賺取的收入。

費用

為賺取收益而招致的成本,例如:

- 租金
- 員工薪金
- 水電費
- 銷貨成本

利潤(或損失)=收益-費用

- 收益>費用 ⇒ 利潤 ⇒ 資本↑
- 收益≤費用 ⇒ 損失 ⇒ 資本↓
- O 企業所賺取的利潤或蒙受的損失,均由<u>東主</u>承擔,並 會影響東主權益(<u>資本</u>)。

提用

- O 提用是指被**東主**提取**自用**的資產。
- O 企業必須開設獨立帳戶記錄提用,而提用金額會從**資** 本中扣除。

擴展了的會計等式

資產 = 資本 +(收益 -費用)-提用 + 負債

Effects of transactions on the accounting equation

1. The owner introduced capital

On 1 June 2013, H Chan started a business by contributing \$20,000 in cash. Of the sum, \$8,000 was immediately placed in a current account and another \$7,000 placed in a fixed deposit account, both under the name of the business.

Assets		Capital		Liabilities
Bank \$15,000 (current account \$8,000; fixed deposit account \$7,000)	=	\$20,000	+	_
+ Cash \$5,000 (\$20,000 - \$8,000 - \$7,000)				
\$20,000		\$20,000		_

2. Bought an asset by cheque

On 6 June 2013, the firm bought furniture for \$4,000 by cheque.

Assets		Capital		Liabilities
Bank \$11,000 (current account \$8,000 - \$4,000; fixed deposit account \$7,000)				
+ Cash \$5,000	=	\$20,000	+	_
+ Furniture \$4,000				
\$20,000		\$20,000		-

3. Bought an asset on credit

On 9 June 2013, the firm bought a machine for \$2,000 from J Wu. It agreed to settle the payment within one month.

Assets		Capital		Liabilities
Bank \$11,000 (current account \$4,000; fixed deposit account \$7,000)				
+ Cash \$5,000 + Furniture \$4,000 + Machinery \$2,000	=	\$20,000	+	Creditor: J Wu \$2,000
\$22,000		\$20,000		\$2,000

 A creditor is a person or organisation to whom a firm owes money.

4. Repaid a liability

On 13 June 2013, the firm paid J Wu, its creditor, \$1,000 in cash as partial payment of the amount owed.

Assets		Capital		Liabilities
Bank \$11,000 (current account \$4,000; fixed deposit account \$7,000)				
+ Cash \$4,000 (\$5,000 - \$1,000) + Furniture \$4,000 + Machinery \$2,000	=	\$20,000	+	Creditor: J Wu \$1,000 (\$2,000 – \$1,000)
\$21,000		\$20,000		\$1,000

商業交易對會計等式的影響

1. 東主投入資本

2013年6月1日,陳先生開設一家企業,並投入現金 \$20,000。當中的\$8,000 立即存放在企業名下的 往來 存款帳戶,作日常營運之用;另有\$7,000 存放在企業 名下的定期存款帳戶,作儲蓄之用。

資產		資本		負債
銀行存款 \$15,000 (往來存款帳戶 \$8,000; 定期存款帳戶 \$7,000) + 現金 \$5,000 (\$20,000 - \$8,000 - \$7,000)	=	\$20,000	+	-
\$20,000		\$20,000		-

2. 以支票付款購買資產

2013年6月6日,企業以支票付款購買價值\$4,000的家具。

資產		資本		負債
銀行存款 \$11,000 (往來存款帳戶 \$8,000 - \$4,000;定期存款帳戶 \$7,000) + 現金 \$5,000 + 家具 \$4,000	=	\$20,000	+	-
\$20,000		\$20,000		_

3. 賒購資產

2013 年 6 月 9 日,企業向胡先生賒購一台價值\$2,000 的機器,並答應在一個月內付款。

資產		資本		負債
銀行存款 \$11,000 (往來存款帳戶 \$4,000; 定期存款帳戶 \$7,000) + 現金 \$5,000 + 家具 \$4,000 + 機器 \$2,000	=	\$20,000	+	債權人: 胡先生 \$2,000
\$22,000		\$20,000		\$2,000

● 債權人(俗稱債主)是指被企業欠債的人或機構。

4. 償還負債

2013 年 6 月 **13** 日,企業向其債權人胡先生支付現金 **\$1,000**,以償還部分欠款。

資產		資本		負債
銀行存款 \$11,000 (往來存款帳戶 \$4,000; 定期存款帳戶 \$7,000) + 現金 \$4,000 (\$5,000 - \$1,000) + 家具 \$4,000 + 機器 \$2,000	=	\$20,000	+	債權人: 胡先生 \$1,000 (\$2,000 - \$1,000)
\$21,000		\$20,000		\$1,000

5. Borrowed money from people other than the owner

On 18 June 2013, the firm borrowed \$20,000 from a bank and immediately deposited the sum into the current account.

Assets		Capital		Liabilities
Bank \$31,000 (current account \$4,000 + \$20,000; fixed deposit account \$7,000)				Creditor: J Wu \$1,000
+ Cash \$4,000	=	\$20,000	+	+ Loan from bank
+ Furniture \$4,000				\$20,000
+ Machinery \$2,000				
\$41,000		\$20,000		\$21,000

6. Sold an asset on credit

On 20 June 2013, the firm sold a piece of furniture to D Wai at its original cost of \$100. The amount was to be paid one month later.

Assets		Capital		Liabilities
Bank \$31,000 (current account \$24,000; fixed deposit account \$7,000)				Creditor: J Wu \$1,000
+ Cash \$4,000	=	\$20,000	+	+ Loan from bank
+ Furniture \$3,900 (\$4,000 – \$100)				\$20,000
+ Machinery \$2,000				
+ Debtor: D Wai \$100				
\$41,000		\$20,000		\$21,000

• A debtor is a person or organisation which owes money to a firm.

7. Paid staff salaries

On 26 June 2013, the firm paid staff salaries of \$4,000 by cheque.

Assets		Capital		Liabilities
Bank \$27,000 (current account \$24,000 - \$4,000; fixed deposit account \$7,000)		\$16,000 (\$20,000 - Expense \$4,000)	Creditor: J Wu \$1,000	
+ Cash \$4,000	=		+	+ Loan from bank \$20,000
+ Furniture \$3,900				
+ Machinery \$2,000				
+ Debtor: D Wai \$100				
\$37,000		\$16,000		\$21,000

8. The owner took cash for personal use

On 28 June 2013, the owner took \$2,000 in cash for personal use.

Assets		Capital		Liabilities
Bank \$27,000 (current account \$20,000; fixed deposit account \$7,000) + Cash \$2,000 (\$4,000 - \$2,000) + Furniture \$3,900 + Machinery \$2,000 + Debtor: D Wai \$100	=	\$14,000 (\$16,000 - Drawings \$2,000)	+	Creditor: J Wu \$1,000 + Loan from bank \$20,000
\$35,000		\$14,000		\$21,000

5. 向東主以外的人士借款

2013 年 6 月 18 日,企業向銀行借入\$20,000,並立即 把款項存入往來存款帳戶。

資產		資本		負債
銀行存款 \$31,000 (往來存款帳戶 \$4,000 + \$20,000; 定期存款帳戶 \$7,000) + 現金 \$4,000 + 家具 \$4,000 + 機器 \$2,000	=	\$20,000	+	債權人: 胡先生 \$1,000 +銀行貸款 \$20,000
\$41,000		\$20,000		\$21,000

6. 賒銷資產

2013 年 6 月 20 日,企業把一件家具以成本價\$100 售 予章先生,並容許章先生一個月後才付款。

資產		資本		負債
銀行存款 \$31,000 (往來存款帳戶 \$24,000; 定期存款帳戶 \$7,000) + 現金 \$4,000 + 家具\$3,900 (\$4,000 - \$100) + 機器 \$2,000 + 債務人: 韋先生 \$100	=	\$20,000	+	債權人: 胡先生 \$1,000 + 銀行貸款 \$20,000
\$41,000		\$20,000		\$21,000

● 債務人(俗稱債仔)是指欠企業款項的人或機構。

7. 支付員工薪金

2013年6月26日,企業以支票支付員工薪金\$4,000。

資產		資本		負債
銀行存款 \$27,000 (往來存款帳戶 \$24,000 - \$4,000; 定期存款帳戶 \$7,000) + 現金 \$4,000 + 家具\$3,900 + 機器 \$2,000 + 債務人: 韋先生\$100	=	\$16,000 (\$20,000 -費用 \$4,000)	+	債權人: 胡先生 \$1,000 +銀行貸款 \$20,000
\$37,000		\$16,000		\$21,000

8. 東主提取現金自用

2013年6月28日,東主從企業提取現金\$2,000自用。

資產		資本		負債
銀行存款 \$27,000 (往來存款帳戶 \$20,000; 定期存款帳戶 \$7,000) + 現金 \$2,000 (\$4,000 - \$2,000) + 家具\$3,900 + 機器 \$2,000 + 債務人: 韋先生 \$100	=	\$14,000 (\$16,000 -提用 \$2,000)	+	債權人: 胡先生 \$1,000 +銀行貸款 \$20,000
\$35,000		\$14,000		\$21,000

9. Received bank interest

On 30 June 2013, the firm received interest of \$10 on its fixed deposit.

Assets		Capital		Liabilities
Bank \$27,010 (current account \$20,000; fixed deposit account \$7,000 + \$10) + Cash \$2,000 + Furniture \$3,900 + Machinery \$2,000 + Debtor: D Wai \$100	=	\$14,010 (\$14,000 + Revenue \$10)	+	Creditor: J Wu \$1,000 + Loan from bank \$20,000
\$35,010		\$14,010		\$21,000

Exhibit 2.1

Suppose K Leung's business had the following assets, capital and liabilities as at 31 August 2013:

Assets		Capital		Liabilities
Equipment \$24,000 Motor vehicles \$56,000 Debtors \$16,300 Bank \$13,200 Cash \$4,000	=	\$100,000	+	Creditors \$13,500
\$113,500		\$100,000		\$13,500

Effect on						
Assets	Capital	Liabilities	Totals			
Equipment + \$2,000 Cash - \$2,000			Unchanged			
Bank + \$10,000 Debtors - \$10,000			Unchanged			
Cash + \$20,000		Loan from M Chen + \$20,000	+ \$20,000			
Bank - \$13,500		Creditors - \$13,500	- \$13,500			
Motor vehicles + \$30,000	Capital + \$30,000 (additional capital)		+ \$30,000			
Cash + \$8,000 Motor vehicles - \$8,000			Unchanged			
Cash - \$800	Capital - \$800 (expense)		- \$800			
Bank + \$1,200	Capital + \$1,200 (revenue)		+ \$1,200			
Bank – \$900	Capital - \$900 (drawings)		- \$900			
	Equipment	Capital Equipment	Assets Capital Liabilities Equipment + \$2,000 Cash - \$2,000 Loan from M Chen + \$10,000 Debtors - \$10,000 Loan from M Chen + \$20,000 Bank - \$13,500 Creditors - \$13,500 Motor vehicles + \$30,000 (additional capital) \$30,000 (additional capital) Cash + \$8,000 Motor vehicles - \$8,000 Capital - \$800 (expense) Bank + \$1,200 Capital + \$1,200 (revenue) Bank - \$900 Capital - \$900			

9. 收取銀行利息

2013年6月30日,企業收到定期存款利息\$10。

資產		資本		負債
銀行存款 \$27,010 (往來存款帳戶 \$20,000; 定期存款帳戶 \$7,000 + \$10) + 現金 \$2,000 + 家具\$3,900 + 機器 \$2,000 + 債務人: 韋先生 \$100	=	\$14,010 (\$14,000 + 收益\$10)	+	債權人: 胡先生 \$1,000 +銀行貸款 \$20,000
\$35,010		\$14,010		\$21,000

示例 2.1

假設梁先生的企業在 2013 年 8 月 31 日的資產、負債和 資本如下:

資產		資本		負債
設備 \$24,000 汽車 \$56,000 債務人 \$16,300 銀行存款 \$13,200 現金 \$4,000	=	\$100,000	+	債權人 \$13,500
\$113,500		\$100,000		\$13,500

交易項目		影	響	
人勿項目	資產	資本	負債	總和
購買額外的設 備,支付現金	設備 + \$2,000			不變
\$2,000 •	現金 - \$2,000			
債務人以支票還	銀行存款 + \$10,000			不變
款 \$10,000。	債務人 - \$10,000			小 菱
向陳先生借入現 金 \$20,000 。	現金 + \$20,000		陳先生的貸款 + \$20,000	+ \$20,000
以支票向債權人 還款 \$13,500 。	銀行存款 - \$13,500		債權人 - \$13,500	- \$13,500
梁先生投入一輛 價值 \$30,000 的 私家車。	汽車 + \$30,000	資本 +\$30,000 (額外資本)		+ \$30,000
按成本出售一輛 舊汽車,收取現 金 \$8,000 。	現金 + \$8,000 汽車 - \$8,000			不變
以現金支付水費 \$800。	現金 - \$800	資本 -\$800 (費用)		- \$800
以支票形式收取 佣金 \$1,200。	銀行存款 + \$1,200	資本 + \$1,200 (收益)		+ \$1,200
梁先生從企業的 銀行帳戶提取 \$900 自用。	銀行存款 - \$900	資本 - \$900 (提用)		- \$900

After recording the above transactions, the assets, capital and liabilities of K Leung's business would appear as follows:

Assets		Capital		Liabilities
Equipment \$26,000 Motor vehicles \$78,000 Debtors \$6,300 Bank \$10,000 Cash \$29,200	=	\$129,500	+	Loan from M Chen \$20,000
\$149,500		\$129,500		\$20,000

記錄上述交易後,梁先生的企業的資產、負債和資本如下:

資產		資本		負債
設備 \$26,000 汽車 \$78,000 債務人 \$6,300 銀行存款 \$10,000 現金 \$29,200	=	\$129,500	+	陳先生的貸款 \$20,000
\$149,500		\$129,500		\$20,000