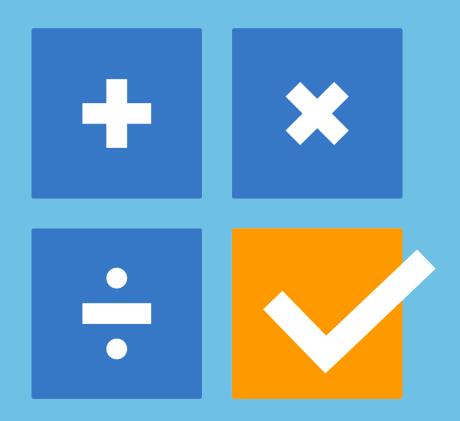
# ACCOUNTING & FINANCIAL STATEMENT ANALYSIS

## WHAT IS ACCOUNTING?

Accounting is an information science that is used to collect and organize financial data for organizations and individuals

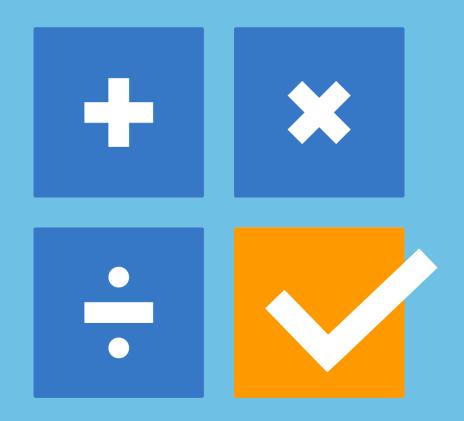
## WHAT TYPE OF INFORMATION?

Accounting organizes financial information. Accounting isn't an abstract science — it is much more practical than theoretical. It's one of those things that you'll learn best by doing



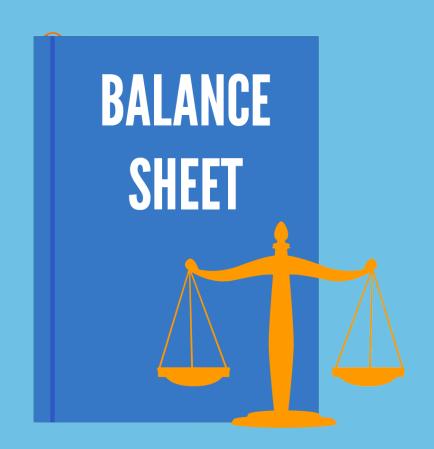
#### TYPES OF ACCOUNTING

- BOOKKEEPING: Ensures that financial information has been gathered systematically
- FINANCIAL ACCOUNTING: Prepared for the company's ownership, its lenders, financial analysts, and for other external stakeholders
- MANAGERIAL ACCOUNTING: Looks into topics like pricing, competition, marginality, budgeting
- TAX ACCOUNTING: Determines the amount of taxes that a company has to pay

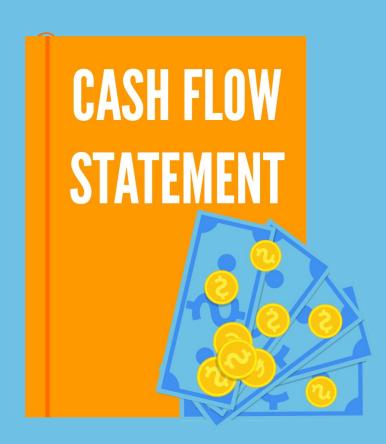




Income
Statement/P&L/
Statement of Earnings



Balance Sheet/
Statement of Financial Position



**Cash Flow Statement** 

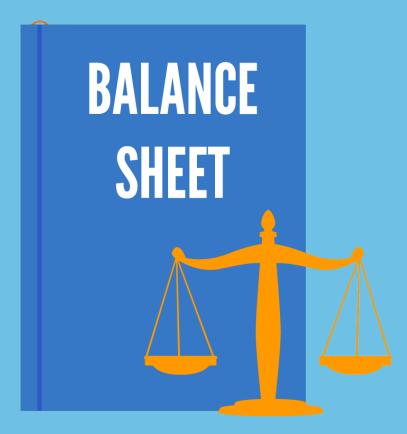
365 🔊 Financial Analyst



Income
Statement/P&L/
Statement of Earnings

# **PURPOSE**

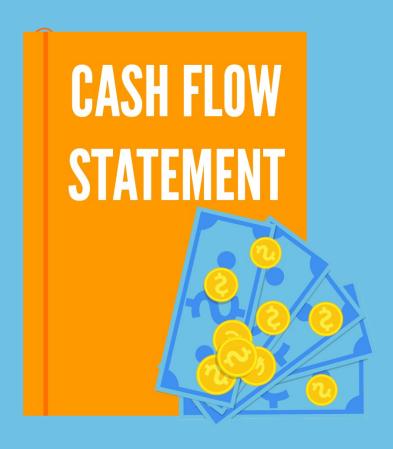
- How did the company perform throughout the period under consideration?
- Did it generate a profit or a loss?



Balance Sheet/
Statement of Financial Position

# **PURPOSE**

- What does a company owe and own at a certain date?
- What is the company's financial position?



**Cash Flow Statement** 

# **PURPOSE**

- How much cash did the company make during the period under consideration?
- Where did the cash come from?

## THE MAIN INCOME STATEMENT ITEMS



Income
Statement/P&L/
Statement of Earnings

#### **REVENUE:**

An inflow of economic resources. Usually, the main type of revenue for a given firm are its day-to-day sales – customers buying the goods that the firm sells.

#### **OTHER REVENUE:**

Earnings generated by performing activities that are outside the core area of operations

#### COST OF GOODS SOLD (COGS):

Expenses that are sustained in order to produce the goods that the firm sells and are directly attributable to the production process

## THE MAIN INCOME STATEMENT ITEMS



Income
Statement/P&L/
Statement of Earnings

#### SELLING, GENERAL AND ADMINISTRATIVE (SG&A):

A large category of costs that includes many items that are not directly related to the production process (for ex. Salaries of non-production personnel, management compensation, rent, general expenses, etc.)

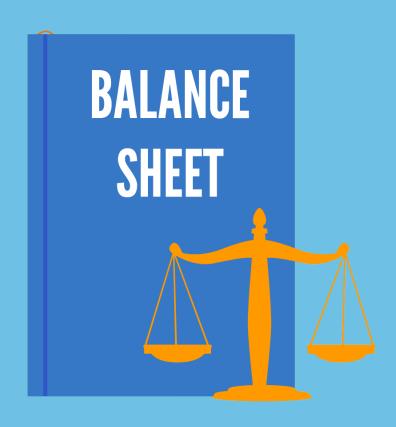
#### **DEPRECIATION & AMORTIZATION (D&A):**

Two accounts that reflect the "using up" of tangible and intangible assets. Depreciation refers to assets of a physical nature, while amortization is the term that is used for intangible assets (goodwill, licenses, copyrights, etc.).

#### **INTEREST EXPENSES:**

The finance expense that a company bears for receiving external financing

**Assets** 



Balance Sheet/
Statement of Financial Position

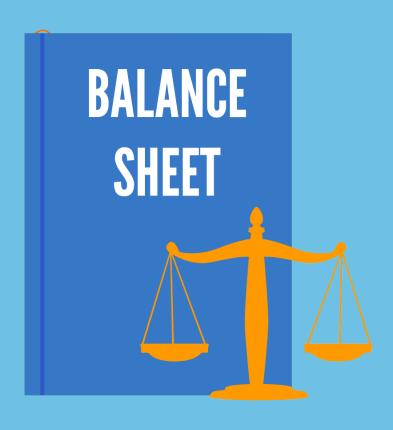
#### **CASH AND CASH EQUIVALENTS:**

One of the most important drivers for a business. It shows how much of a firm's assets are cash or can easily be converted into cash. It gives us an idea of the liquidity of the company

#### **ACCOUNTS RECEIVABLE:**

When customers buy a firm's products they have to pay for them. And until they do, the firm will register this amount in accounts receivable, which indicates the money owed by customers. The firm registers that it has earned a payment from these customers but has not yet received the payment.

**Assets** 



#### **INVENTORY:**

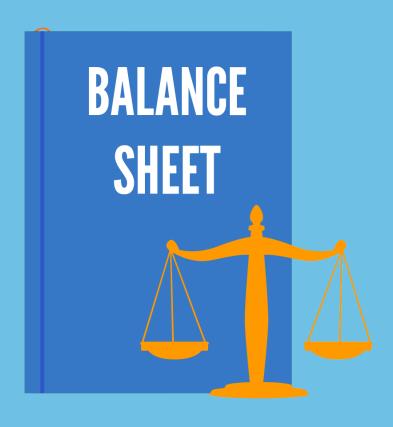
Inventory is the account that shows the value of raw materials, goods that are in the process of elaboration and finished goods that are ready to be sold to customers.

#### PROPERTY, PLANT & EQUIPMENT (PP&E):

A group of assets that are vital to business operations. Imagine a production company – it certainly needs plants and equipment in order to transform raw materials into finished products. Usually, this is a hefty investment that cannot be easily liquidated.

Balance Sheet/
Statement of Financial Position

Liabilities



#### **ACCOUNTS PAYABLE:**

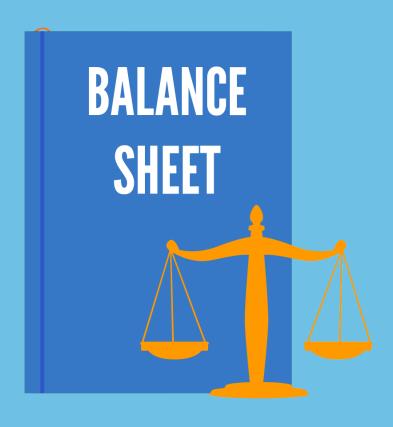
When a company buys goods from suppliers and does not pay at the time of the purchase, it registers the amount in accounts payable until the actual payment has been made.

#### FINANCIAL LIABILITIES:

A financial liability appears on the Balance Sheet of a company when it receives external financing – which is usually a bank loan.

Balance Sheet/
Statement of Financial Position

Owners' Equity



Balance Sheet/
Statement of Financial Position

#### **EQUITY:**

The firm's capital that it technically "owes" to its owners. This capital would not be repaid to the shareholders, but the company will try to pay them a decent amount of dividends if its business is successful

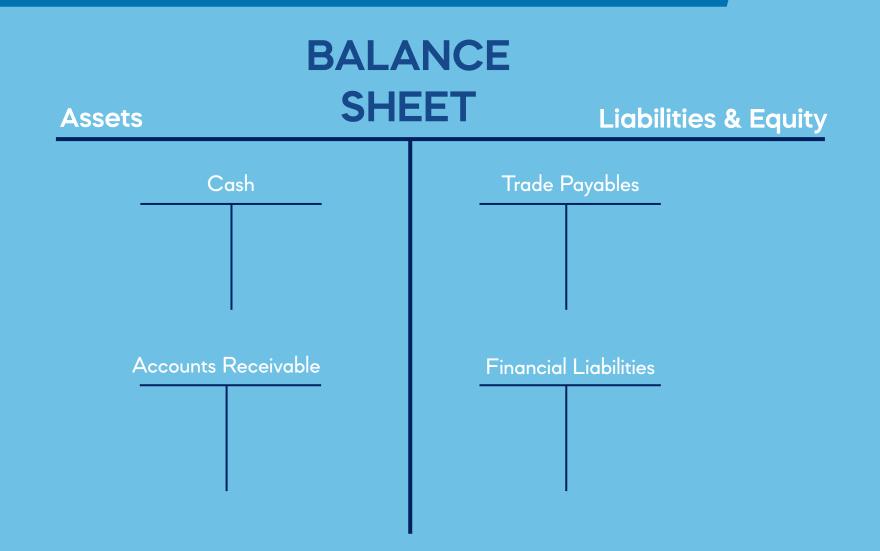
## THE BASIC ACCOUNTING EQUATION

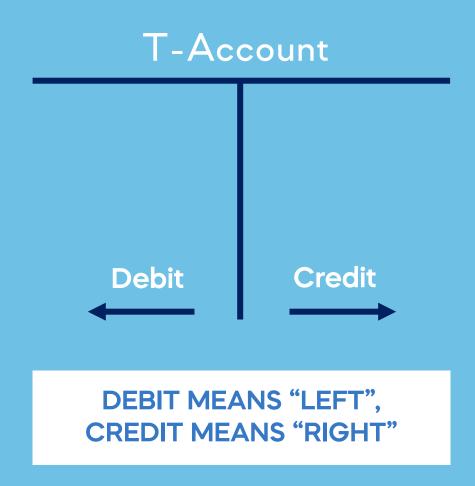


The reason it is called a "Balance Sheet" is because assets must equal liabilities and equity. The two sides have to be equal at all times.

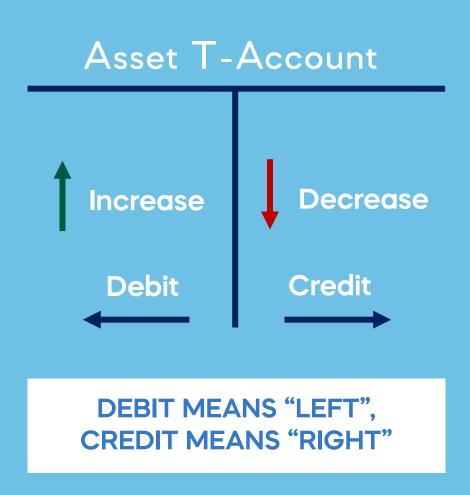
This principle is known as the Accounting equation and is one of the core principles around which Accounting has been built.

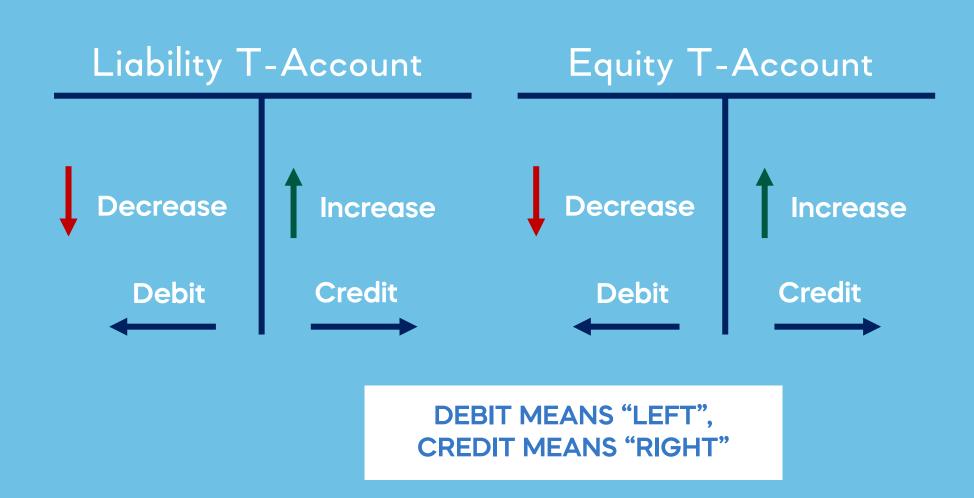
ASSETS ARE EQUAL TO LIABILITIES PLUS EQUITY.



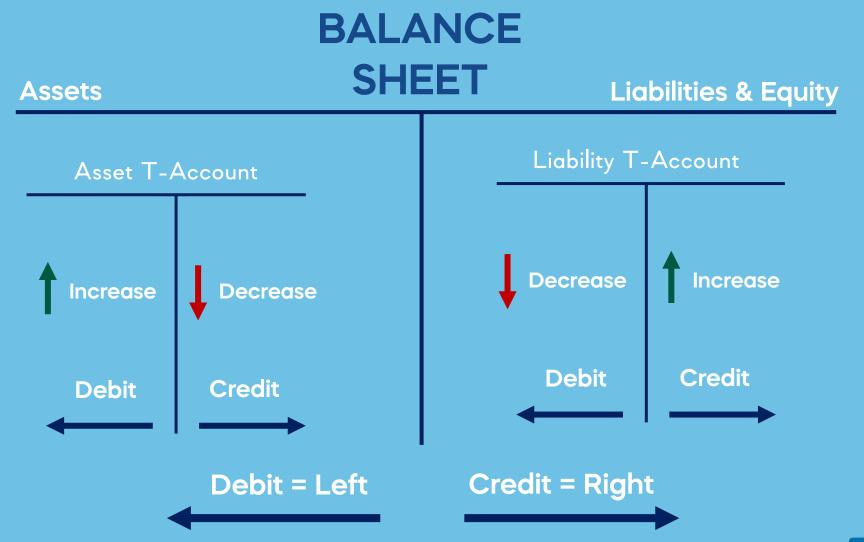


Assets increase to the left





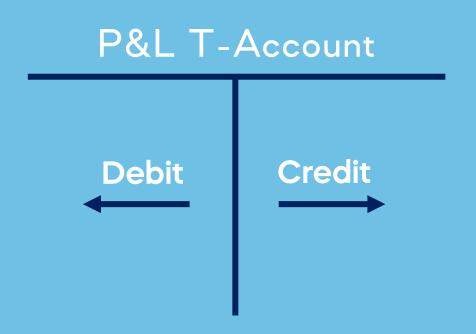
Liabilities and Equity increase to the right



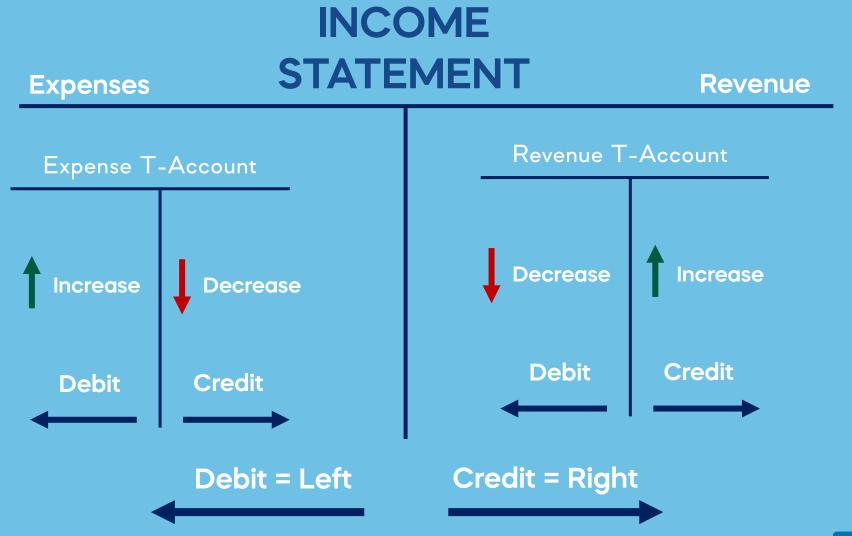
# INCOME STATEMENT T-ACCOUNTS



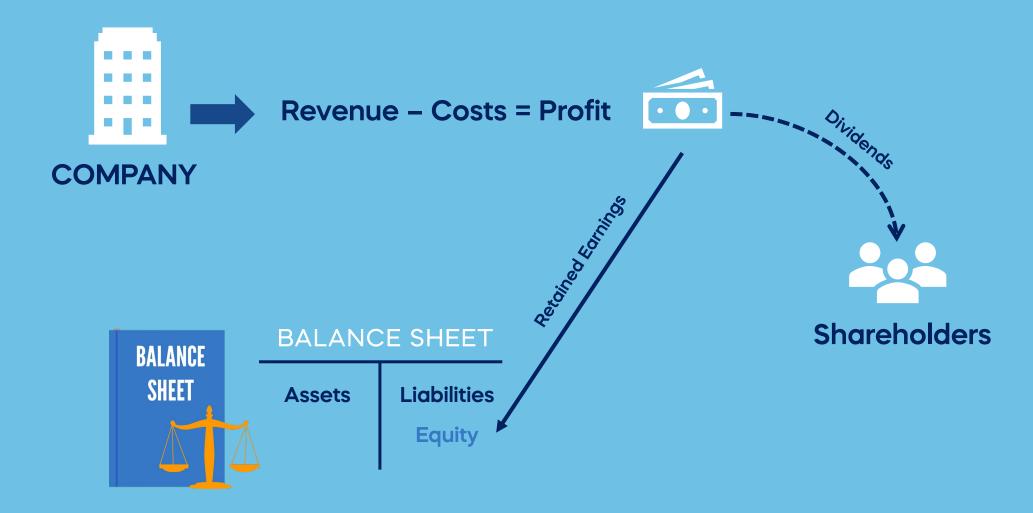
Income
Statement/P&L/
Statement of Earnings



DEBITS ARE ON THE LEFT, WHILE CREDITS ARE ON THE RIGHT SIDE



## WHEN A FIRM MAKES PROFITS...



#### Revenue behaves like **Liabilities & Equity**

THE HIGHER A COMPANY'S REVENUE, THE HIGHER ITS PROFITS AND EQUITY







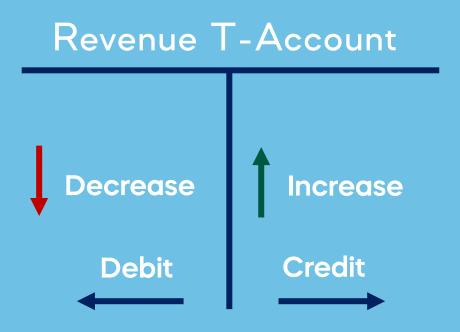


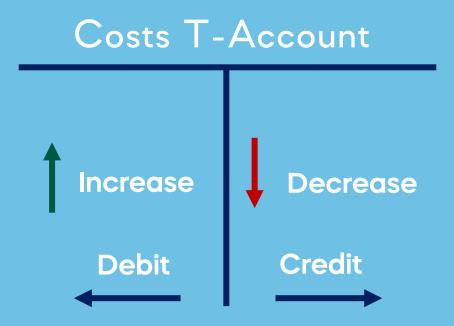




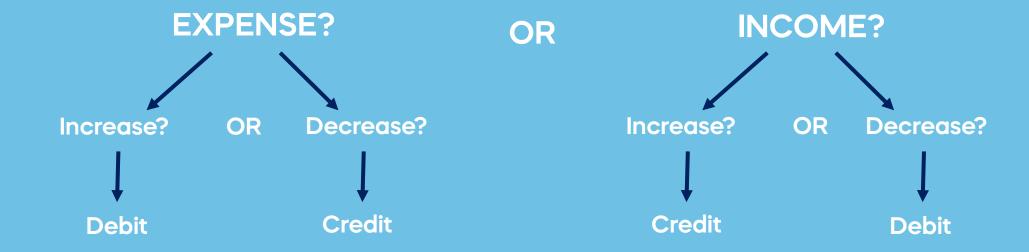


# Revenue behaves like Liabilities & Equity



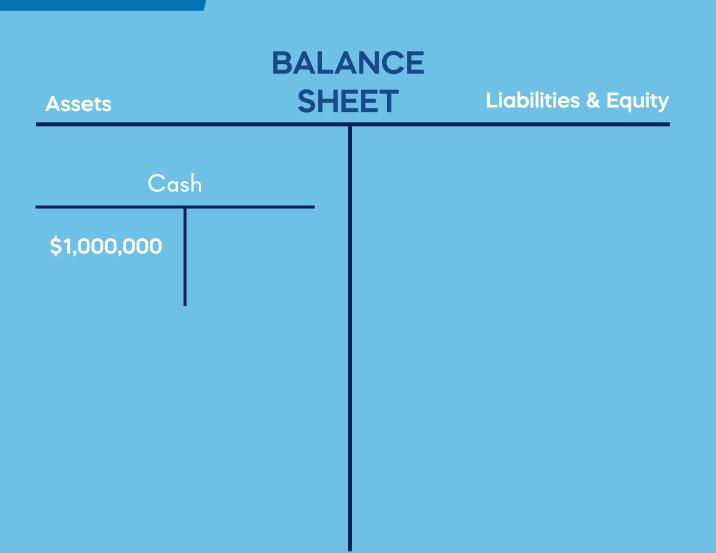


# A USEFUL SCHEME



A firm owns one asset



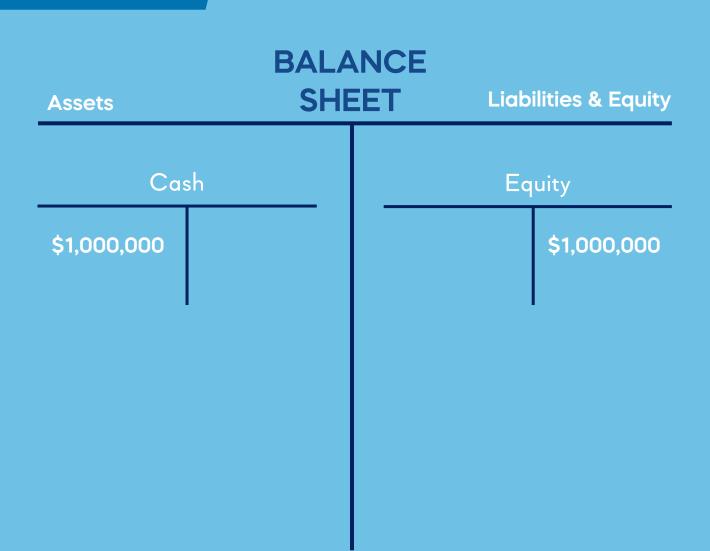


A firm owns one asset



100% Equity Financing





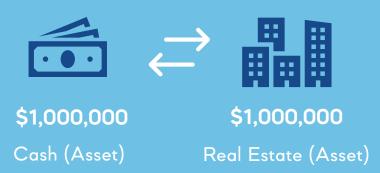
A firm owns one asset

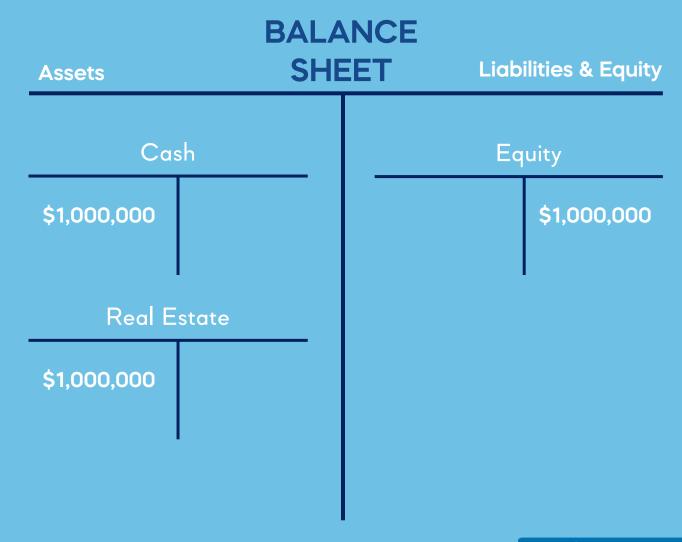


100% Equity Financing



**Acquisition of Real Estate** 





A firm owns one asset



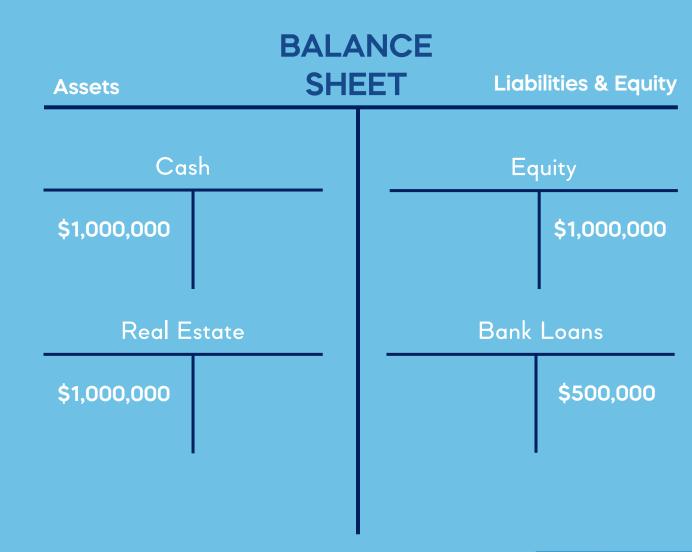
100% Equity Financing



**Acquisition of Real Estate** 

The firm receives a bank loan





A company sells office equipment







The company delivers the products







The company delivers the products







- 1 A payment is made AT delivery
- 2 A payment is made **BEFORE** delivery
- 3 A payment is made AFTER delivery

#### PAYMENT AT DELIVERY

The client pays for the office supplies at delivery

Cash (BS)		Revenue (IS)		Trade Receiv	Trade Receivables (BS)	
\$10,000			\$10,000			

#### **PAYMENT AFTER DELIVERY**

The client pays for the office supplies 60 days after delivery

Cash (BS)		Revenue (IS)		Trade Receivables (BS)	
			\$10,000	\$10,000	

#### PAYMENT AFTER DELIVERY

The client pays for the office supplies 60 days after delivery

Cash (BS)	Revenue (IS)	Trade Receiv	Trade Receivables (BS)	
\$10,000	\$10,000	\$10,000	\$10,000	

# TIMING OF REVENUES

#### **PAYMENT AFTER DELIVERY**

The client pays for the office supplies 60 days after delivery

Cash (BS)	Revenue (IS)	Trade Receiv	Trade Receivables (BS)		
\$10,000	\$10,000	\$10,000	\$10,000		

# **TIMING OF REVENUES**

### **PAYMENT BEFORE DELIVERY**

The client pays in advance

Cash	Cash (BS) Revenue (IS)		Trade Recei	Trade Receivables (BS)		Prepaid Revenue (BS)	
\$10,000							\$10,000

# **TIMING OF REVENUES**

### **PAYMENT BEFORE DELIVERY**

The client pays in advance

Cash (BS) Revenue (IS)		Trade Receivables (BS)		Prepaid Revenue (BS)		
\$10,000		\$10,000			\$10,000	\$10,000

A company has to pay rent



- 1 A payment is made AT the date of the invoice
- 2 A payment is made **AFTER** the date of the invoice
- A payment is made BEFORE the date of the invoice

### PAYMENT AT THE INVOICE DATE

Paying rent at the date of the invoice

Cash	Cash (BS)		Rent (IS)		Trade Receivables (BS)		
	\$1,000	\$1,000					

#### PAYMENT AFTER THE INVOICE DATE

The company pays its rent 60 days after the invoice is issued

Cash	(BS)	Rent (IS)	Trade Rece	Trade Receivables (BS)		
	\$1,000	\$1,000	\$1,000	\$1,000		

### PAYMENT BEFORE THE INVOICE DATE

The company pays its rent in advance

Cash	Cash (BS) Rent (I		(IS)	Trade Payables (BS)		Prepaid Expenses (BS)	
	\$1,000	\$1,000				\$1,000	\$1,000



A firm's ability to pay its short- term obligations



A firm's ability to generate profits



The ability to meet long-term liabilities



**ACTIVITY/EFFICIENCY** 

The ability to effectively employ resources into business operations



A firm's capability to pay its short-term obligations



Current Ratio
Quick Ratio



### **PROFITABILITY**

ROA EBIT%

**ROE** Net Income%



**SOLVENCY** 

Debt Ratio Interest Coverage Ratio



DSO DIO DPO NET Trading Cycle



EPS DEPS P/E Dividend Yield







$$ROA = \frac{Net Income}{Total Assets}$$

$$ROE = \frac{Net Income}{Shareholders' Equity}$$

ROE = Net Profit Margin x Equity Turnover



$$DSO = \frac{Accounts Receivable}{Revenue} \times 360$$

$$DPO = \frac{Accounts Payable}{Cost of Goods Sold} \times 360$$

Net Trading Cycle = DSO + DIO - DPO



Weighted average number of common shares outstanding

DEPS = Weighted average number of common shares outstanding

365 Financial Analyst