# **Balance Sheet Equation (The Accounting Identity)**

Assets = Liabilities + Stockholders' equity

Resources = Claims on Resources by

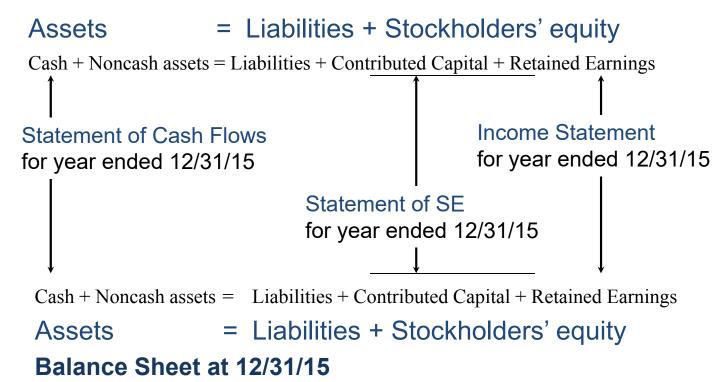
**Outsiders + Owners** 

- Key features
  - Must always balance! (Double-entry bookkeeping)
  - Changes over a period between two Balance Sheets are summarized in the Income Statement, Statement of Stockholders' Equity and Statement of Cash Flows



#### **Financial Statements**

#### Balance Sheet at 12/31/14





# **Complete Balance Sheet Equation**

Assets = Liabilities + Stockholders' equity

**Stockholders' Equity = Contributed Capital + Retained Earnings** 

**Retained Earnings = Prior Retained Earnings + Net Income – Dividends** 

**Net Income = Revenues – Expenses** 

Assets = Liabilities + Contributed Capital + Prior Retained Earnings + Revenues – Expenses – Dividends



## **Using the Balance Sheet equation**

Assets = 100, Liabilities = 50. What is Stockholders' Equity?

Assets (100) = Liabilities (50) + Stockholders' Equity (X)

**50** 

• Liabilities increase by 100 and Stockholders' Equity is unchanged. What is the change in Assets?

Assets (X) = Liabilities (+100) + Stockholders' Equity (0)

+100

All noncash assets = 70, Total Liabilities = 60, Total Stockholders'
 Equity = 30. What is Cash?

Cash (X) + Noncash assets (70) = Liabilities (60) + Stockholders' Equity (30) 20

 Cash decreases by 10 and noncash Assets increase by 15. What is the change in Liabilities?

Cash (-10) + Noncash assets (+15) = Liabilities (X) + Stockholders' Equity (?)

Not enough information



## **Using the Balance Sheet equation**

 Retained Earnings increase by 100, Dividends = 50. What is Net Income?

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Retained Earnings = Prior Retained Earnings + Net Income – Dividends

(Retained Earnings - Prior Retained Earnings) (100) = Net Income (X) – Dividends (50) 150
```

 Revenue increases by 100 and all other categories are unchanged, except Assets. What is the change in Assets?

```
Assets (X) = Liabilities (0) + Contributed Capital (0) + Prior Retained Earnings (0) + Revenues (+100) - Expenses (0) - Dividends (0) + 100
```

• Expenses increase by 60 and all other categories are unchanged, except Cash. What is the change in Cash?

```
Cash (X) + Non-cash assets (0) = Liabilities (0) + Contributed Capital (0) + Prior Retained

Earnings (0) + Revenues (0) - Expenses (+60) - Dividends (0)

-60
```

