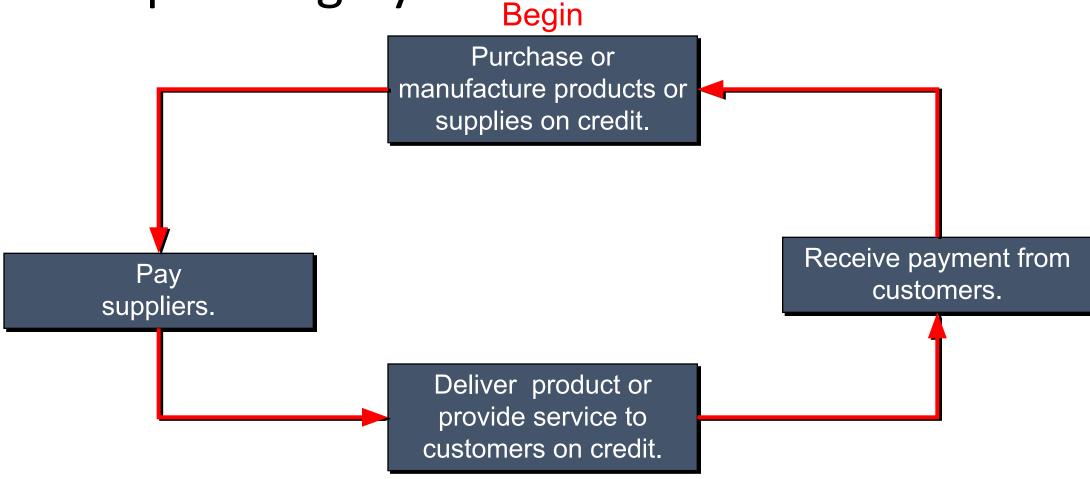
Lecture 5 Methods of revenue and expense calculations.

The Operating Cycle



The Accounting Cycle

Time Period: The long life of a company is normally reported over a series of shorter time periods

Recognition Issues: When should the effects of operating activities be recognized (recorded)?

Measurement Issues: What amounts should be recognized?



Format of the Income Statement

Elements of the Income Statement

Revenues – Inflows or other enhancements of assets or settlements of its liabilities that constitute the entity's ongoing major or central operations.

Examples of Revenue Accounts

Sales

Dividend

Fee

Rent

Interest

Format of the Income Statement

Elements of the Income Statement

Expenses – Outflows or other using-up of assets or incurrences of liabilities that constitute the entity's ongoing major or central operations.

Examples of Expense Accounts

- Cost of goods sold
- Depreciation
- Interest

- Rent
- Salaries and wages
- Taxes

Format of the Income Statement

Elements of the Income Statement

Gains – Increases in equity (net assets) from peripheral or incidental transactions.

Losses - Decreases in equity (net assets) from peripheral or incidental transactions.

Gains and losses can result from

- sale of investments or plant assets,
- settlement of liabilities,
- write-offs of assets.

PAPA JOHN'S INTERNATIONAL, INC.

Consolidated Statement of Income

For the Year Ended December 31, 2008

(dollars in thousands)

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Restaurant sales revenue	\$ 996,000			
Franchise fee revenue	136,000			
Total revenues	1,132,000			
Operating Expenses				
Cost of sales	483,000			
Salaries expense	193,000			
Rent expense	35,000			
Advertising expense	49,000			
General and administrative expenses	100,000			
Depreciation expense	33,000			
Other operating expenses	172,000			
Total expenses	1,065,000			
Operating Income	67,000			
Other Items				
Investment income	1,000			
Interest expense	(8,000)			
Loss due to restaurants sold	(3,000)			
Income before Income Taxes	57,000			
Income tax expense	20,000			
Net Income	\$ 37,000			
Earnings per Share	\$1.32			

Operating activities (central focus of business)

Includes insurance, repairs, utilities, and fuel expenses

Subtotal of operating revenues minus operating expenses

Peripheral activities (not the main focus of the business)

— Subtotal of all revenues minus all expenses except taxes

= \$37,000,000 Net income ÷ 28,100,000 Average number of shares outstanding (from Papa John's annual report)

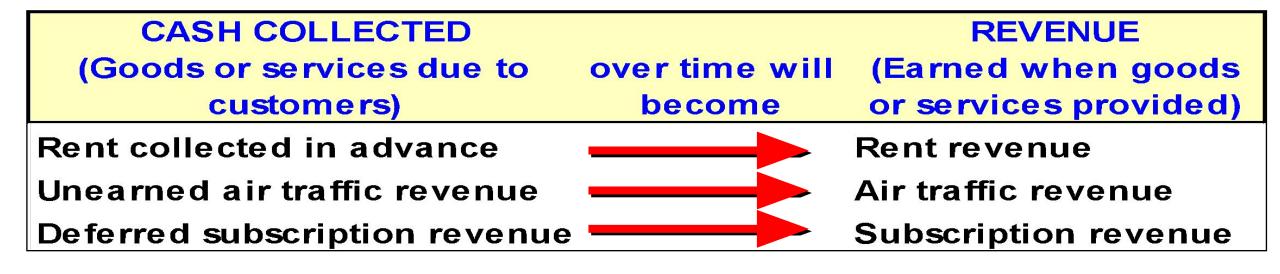
Recognition of operating activities

- CASH BASIS ACCOUNTING records revenues when cash is received and expenses when cash is paid.
- ACCRUAL BASIS ACCOUNTING records revenues when earned and expenses when incurred, regardless of the timing of cash receipts or payments.

Under the **revenue principle**, four criteria or conditions must normally be met for revenue to be recognized. If **any** of the following criteria are **not** met, revenue normally is **not** recognized and cannot be recorded.

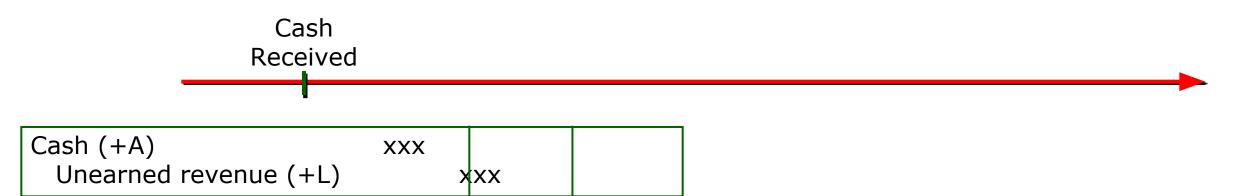
- 1. Delivery has occurred or services have been rendered.
- 2. There is persuasive evidence of an arrangement for customer payment.
- 3. The price is fixed or determinable.
- 4. Collection is reasonably assured.

Sometimes cash is received before the good or service is delivered



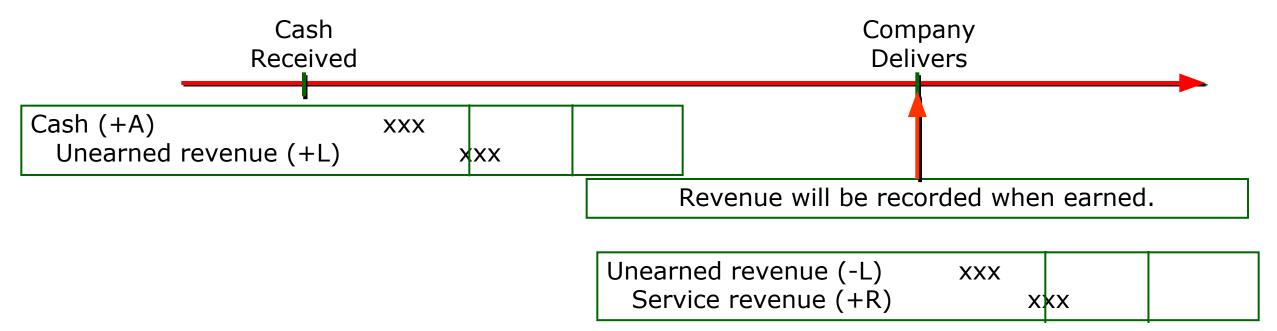
If cash is received **before** the company delivers goods or services, the liability account *UNEARNED REVENUE* is recorded.

Cash received before revenue is earned -

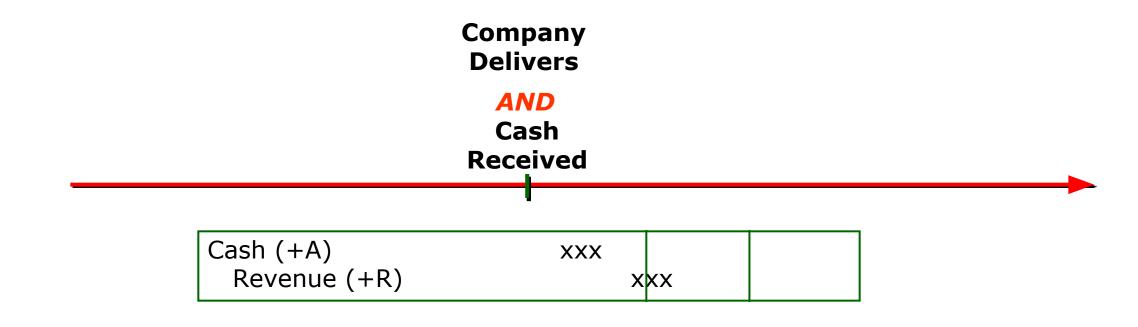


When the company delivers the goods or services UNEARNED REVENUE is reduced and REVENUE is recorded.

Cash received before revenue is earned -

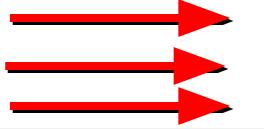


When cash is received on the date the revenue is earned, the following entry is made:



Sometimes cash is received after the good or service is delivered

Interest receivable Rent receivable Accounts receivable

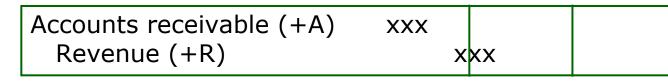


Interest revenue Rent revenue Sales revenue

If cash is received after the company delivers goods or services, an asset *ACCOUNTS RECEIVABLE* is recorded.

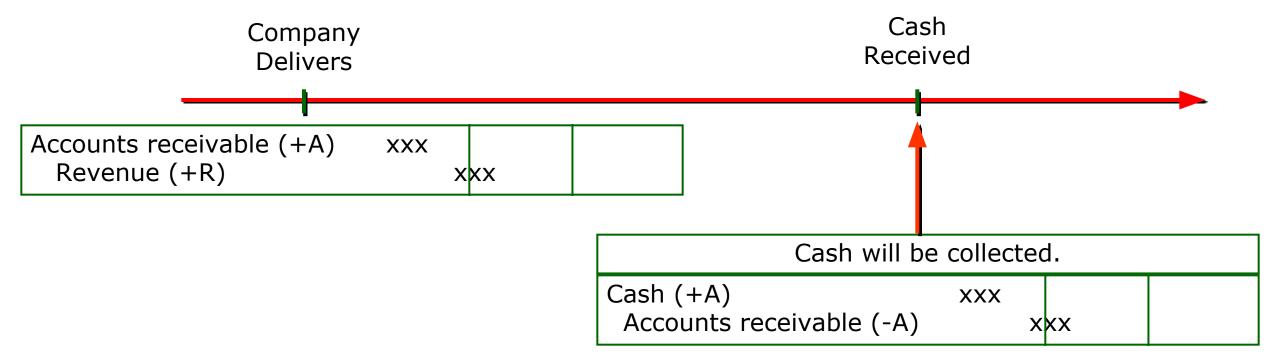
Cash received after revenue is earned -

Company Delivers



When the cash is received the *ACCOUNTS RECEIVABLE* is reduced.

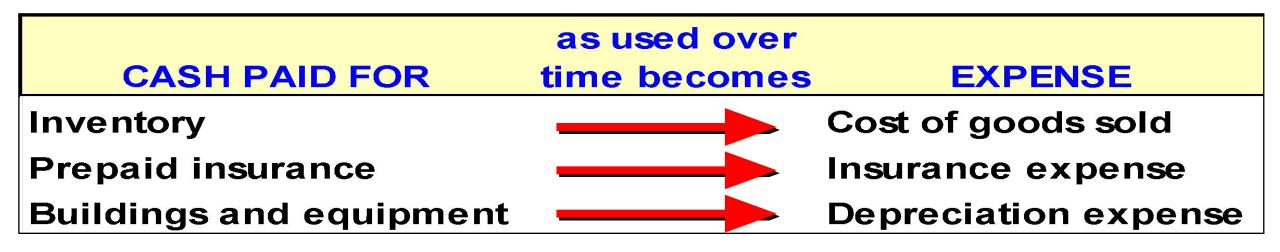
Cash received after revenue is earned -



Resources consumed to earn revenues (i.e.expenses) in an accounting period should be recorded in that period, regardless of when cash is paid.

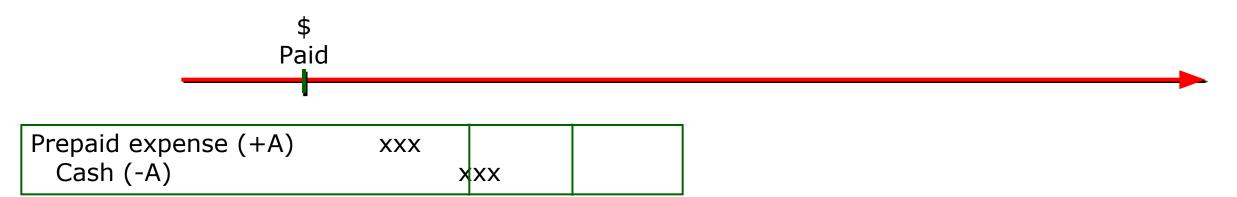


Sometimes cash is paid before the expense is incurred

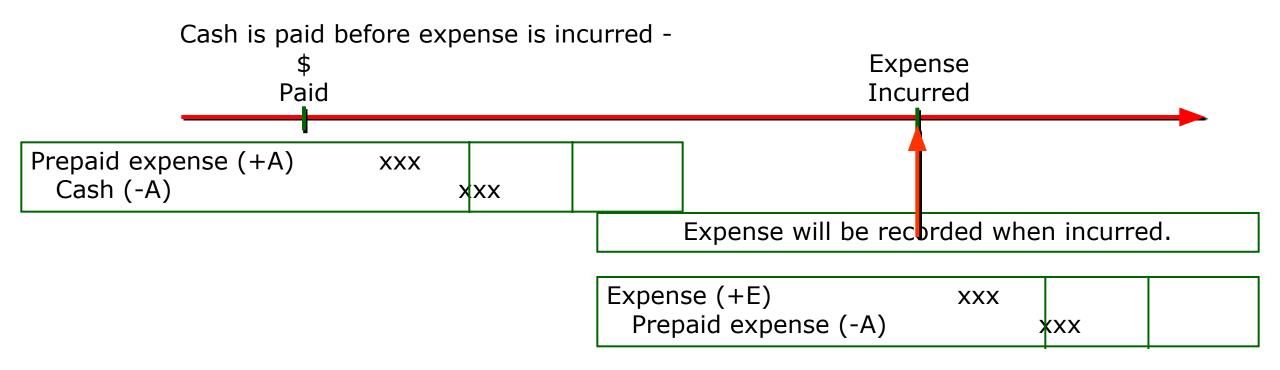


If cash is paid before the company receives goods or services, an asset account, *PREPAID EXPENSE* is recorded.

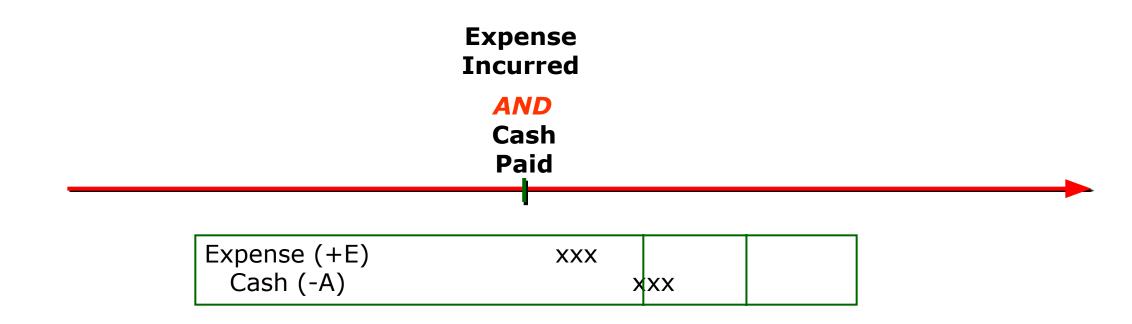
Cash is paid before expense is incurred -



When the expense is incurred *PREPAID EXPENSE* is reduced and an *EXPENSE* is recorded.

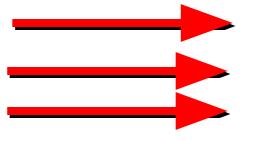


When cash is paid on the date the expense is incurred, the following entry is made:



Sometimes cash is paid after the expense is incurred

Utilities expense Wages expense Interest expense



Accounts payable Wages payable Interest payable

If cash is paid after the company receives goods or services, a liability *PAYABLE* is recorded.

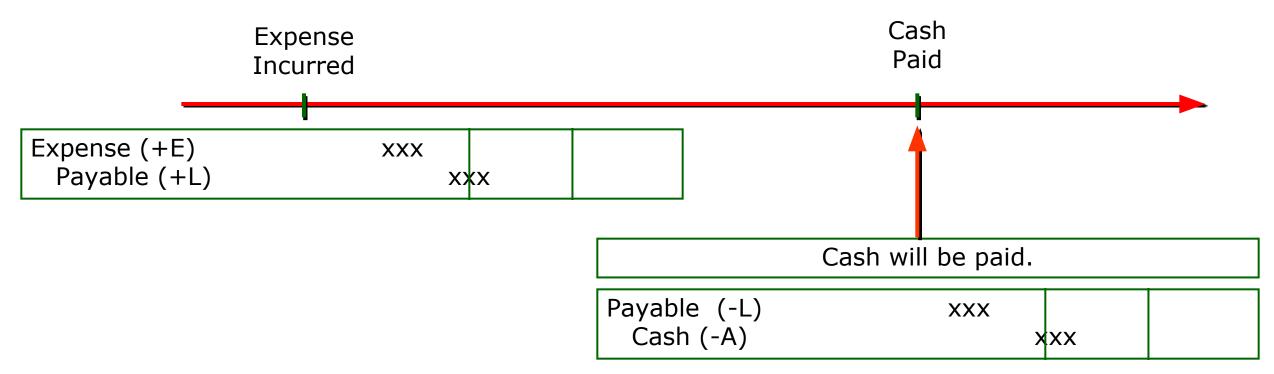
Cash paid after expense is incurred -

Expense Incurred



When cash is paid the *PAYABLE* is reduced.

Cash paid after expense is incurred -





ASSETS

Debit for Increase

Credit for Decrease

LIABILITIES

Debit for Decrease

Credit for Increase

Next, let's see how Revenues and Expenses affect Retained Earnings.

CONTRIBUTED CAPITAL

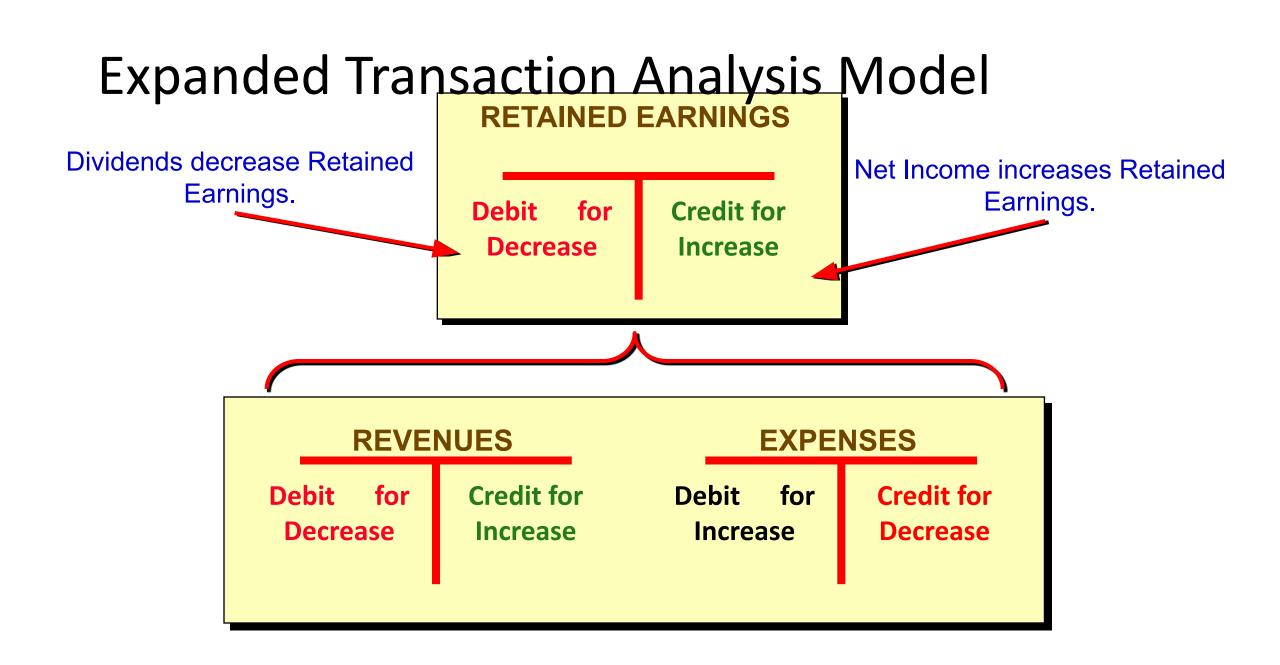
Debit for Decrease

Credit for Increase

RETAINED EARNINGS

Debit for Decrease

Credit for Increase



Key Ratio Analysis

Total Asset
Turnover = Sales (or Operating) Revenues
Average Total Assets

Measures the sales generated per dollar of assets.

Creditors and analysts use this ratio to assess a company's effectiveness at controlling current and noncurrent assets.

Total Asset Turnover Ratio

(Beginning total assets + ending total assets) ÷ 2

Papa John's Total Asset Turnover Ratio for 2008 (dollars in thousands):

$$\frac{\$1,132,000}{(\$402,000 + \$386,000) \div 2} = 2.87$$

Finding Accounting Errors

Determine the out-of-balance amount.

Divide the out-of-balance amount by 2 (a debit treated as a credit or vice versa).

Divide the out-of-balance amount by 9, which may indicate a *slide* or a *transposition*.

Example

- Papa John's restaurants sold pizza to customers for \$36,000 cash and sold \$30,000 in supplies to franchised restaurants, receiving \$21,000 cash with the rest due on account.
- The cost of the dough, sauce, cheese, and other supplies for the restaurant sales in (a) was \$30,000.
- Papa John's sold new franchises for \$400 cash, earning \$100 immediately by performing services for franchisees; the rest will be earned over the next several months.
- In January, Papa John's paid \$7,000 for utilities, repairs, and fuel for delivery vehicles, all considered general and administrative expenses incurred during the month.

Example

- Papa John's commissaries ordered and received \$29,000 in supplies, paying \$9,000 in cash and owing the rest on account to suppliers.
- Papa John's paid \$14,000 cash to employees for their work in January.
- At the beginning of January, Papa John's paid the following, all of which are considered prepaid expenses when paid:
 - \$2,000 for insurance (covering the next four months beginning January 1),
 - \$6,000 for renting space in shopping centers (over the next three months beginning January 1), and
 - \$1,000 for advertising (to be run in February).

Example

- Papa John's sold land with an historical cost of \$1,000 for \$4,000 cash.
- Papa John's received \$15,500 in franchisee fees based on their weekly sales; \$12,800 of the amount was due from franchisees' sales recorded as accounts receivable in December and the rest is from January sales.
- Papa John's paid \$10,000 on accounts owed to suppliers.
- Papa John's received \$1,000 in cash for interest earned on investments.

Homework

- Chapter 3
- Exercises: E3-4 (a-f); E3-6, E3-8; P3-2, E 3-17, P 3-4
- Additional exercises.