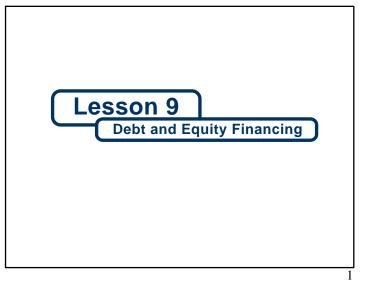
Lesson 9



Balance Sheet				
Assets: Current Assets: Cash Accounts receivable Less: Allowance for Uncollectible A/R	Liabilities and Stockholders' Equity: \$ xxx			
Inventories Prepaid Expenses	XXX XXX XXX I Long Town Liabilities			
Long-Term Assets: Property and Equipment Less: Accum. Dep'n. Intangibles	Long-Term Liabilities: xxx ? (xxx) xxx Stockholders' Equity: xxx ?			
Total Assets:	\$ xxx			

Long-Term Liabilities

Long-Term Notes Payable

Mortgage Notes Payable

Bonds Payable

Lease Liabilities

Deferred Income Taxes Payable

Pension Liabilities

Long-Term Liabilities Long-Term Note Payable: *Example*: \$100,000 is borrowed from the bank on 9/1/X5. The note bears 8% annual interest payable every six months and matures in three years. Entry at 9/1/X5: 100,000 Cash Note Payable 100,000 **Adjusting entry at \frac{12}{31}X5:** (Interest: $100,000 \times 0.08 \times 4/12 = 2,666.66$) Interest Expense 2,667 2,667 Interest Payable

Entry at 3/1/X6: (Interest: $100,000 \times .08 \times 6/12 = 4,000.00$) (Interest: $100,000 \times .08 \times 2/12 = 1,333.33$) Interest Payable 2,667 1,333 Interest Expense Cash 4,000 **Entry at 9/1/X6:** (Interest: $100,000 \times .08 \times 6/12 = 4,000.00$) Interest Expense Cash 4,000 **Adjusting entry at \frac{12}{31}X6:** (Interest: 100,000 x .08 x 4/12 = 2,666.66) Interest Expense Interest Payable 2,667 Interest recorded for the entire year 'X6: 3/1/X6: \$ 1,333 9/1/X6: 4,000 12/31/X6: 2,667 **\$ 8,000** (100,000 x .08 x 1 = \$8,000)

Entry at maturity 9/1/X8: Interest Expense 4,000 Cash Note Payable 100,000 Cash

Problem #35

On 5/1/X4, \$15,000 cash is borrowed from a local bank under a note bearing interest at 12% payable annually on 5/1/X5 and 5/1/X6. The principal amount is due at maturity, 5/1/X6.

a. Prepare all the journal entries required throughout the life of the note assuming all principal and interest payments are made on a timely basis. (Do not forget the adjusting entries required for interest expense at 12/31/X4 and 12/31/X5 in order to properly prepare financial statements on those dates.)

b. Determine the amount of interest expense recognized under the note in each year 20X4, 'X5, and 'X6 along with the total interest expense recognized over the entire term of the note.

5/1/X	4:				
(Cash	15,000			
	Note Payable		15,000		
12/31	/X4 Adjusting Entry: (May 1st - Dec. 3	1st)			
1	nterest Expense	1,200			
	Interest Payable		1,200		
(\$15,000 x .12 x 8/12 = \$1,200) 5/1/X5: (Date first interest payment due)					
1	nterest Payable	1,200			
1	nterest Expense	600			
	Cash		1,800		
	$($15,000 \times .12 \times 12/12 = $1,8)$				
	$(\$15,000 \times .12 \times 4/12 = \$60)$)0)			

7

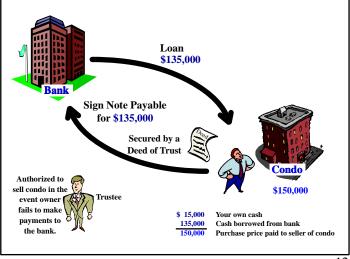
Problem #35 - Answer 12/31/X5 Adjusting Entry: Interest Expense 1.200 **Interest Payable** 1,200 $($15,000 \times .12 \times 8/12 = 1,200)$ **5/1/X6:** (Maturity) Interest Payable 1,200 Interest Expense 600 Cash 1.800 (\$15,000 x .12 x 12/12 = 1,800)15,000 Note Payable Cash 15,000

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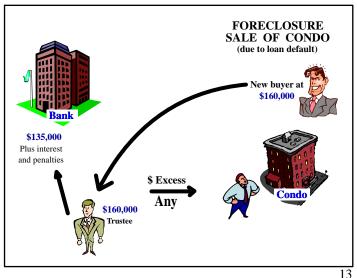
Mortgage Note Payable:

A mortgage note payable is a loan or note payable for which real estate (land and/or building) has been pledged as collateral or security through a legal document referred to as a trust deed. A trust deed authorizes a third party to sell the property, in the event of default on the note payable, and disburse the proceeds from the sale to the lender.

Mortgage Notes Payable are usually created in conjunction with the purchase of real estate.



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Common Characteristics of Mortgage Notes Payable:

- 1. Typically long-term (15, 25 or 30 years)
- 2. Typically bears a fixed or adjustable rate of interest.
- **3.** Typically requires a monthly payment (fixed in amount or adjustable) which includes not only the monthly interest due, but a portion of the principal such that by maturity, the entire amount of principal will have been repaid in full (fully amortizing note).
- **4.** Most mortgage notes provide that monthly payments be applied first to any interest due at the time of payment with any excess paid to be applied to principal.

Example: On 4/1/X7, real estate is purchased for \$300,000 (land and building valued at \$50,000 and \$250,000, respectively) with the price paid in cash (\$30,000) and the execution of a mortgage note payable (\$270,000). Record the transaction:

4/1/X7:

Land Building	50,000 250,000	
Cash		30,000
Mortgage Note Payable		270,000

Assume that the \$270,000 mortgage note payable is a fully amortizing mortgage over 30 years and bears 9% annual interest compounded monthly, with monthly payments of \$2,172.48 payable on the 1st of each month beginning 5/1/X7 for the next 30 years.

Entry for 1st payment at 5/1/X7:

(Interest: $270,000 \times .09 \times 1/12 = 2025.00$)

Interest Expense 2,025.00
Mortgage Note Payable 147.48
Cash 2,172.48

Mortgage Note Payable 270,000 147.48 269,852.52

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Entry for second payment on 6/1/X7:

(Interest: $269,852.52 \times .09 \times 1/12 = 2,023.89$)

Interest Expense	2,023.89	
Mortgage Note Payable	148.59	
Cash		2,172.48

Mortgage Note Payal	ble	
---------------------	-----	--

	270,000
147.48	
148.59	
	269,703.93

Mortgage Amortization Schedule

<u>Month</u>	Monthly Payment	Beginning Principal <u>Balance</u>	Interest Portion	Principal Portion
1	2,172.48	270,000.00	2,025.00	147.48
2	2,172.48	269,852.52	2,023.89	148.59
3	2,172.48	269,703.93	2,022.78	149.70
4	2,172.48	269,554.23	2,021.66	150.82
5	2,172.48	269,403.41	2,020.53	151.95
6	2,172.48	269,251.46	2,019.39	153.09
7	2,172.48	269,098.37	2,018.24	154.24
8	2,172.48	268,944.13	2,017.08	155.40
ļ	Ţ	Ţ	Ţ	Ţ
358	2,172.48	6,420.86	48.16	2,124.32
359	2,172.48	4,296.54	32.22	2,140.13
360	2,172.48	2,156.28	16.17	2,156.28
		Totals	512,093	270,000

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9-3

How do you build equity in real estate?

(In this context, equity means the amount of cash left to the owner in the event of sale of property.)

Purchase of property:

 Cash down (equity)
 \$ 30,000

 Mortgage note payable
 270,000

 Total purchase price
 \$ 300,000

Cash proceeds upon sale after two months (assume no selling costs):

Sales price \$300,000
Payoff of mortgage note payable
Net cash upon sale \$30,296

Build up in equity over two months:

Cash proceeds upon sale
Cash invested upon purchase
Build up in equity (cash)

\$\frac{30,296}{(30,000)}\$

\$ 296 = Principal portion of monthly mortgage payments for two months.

Most build up in equity on real estate comes from appreciation in property value over time.

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Assume the property is sold after one year.

 Sales price
 \$ 330,000

 Less: Selling costs (7%)
 (23,100)

 Net sales price
 306,900

 Payoff of note payable
 (268,155)

 Net cash upon sale
 \$ 38,745

Build up in Equity for the year:

Cash received upon sale \$ 38,745 Cash invested at purchase (30,000) Build up in equity \$ 8,745 What caused this \$8,745 build up in equity?

Appreciation in value:

 Net sales price
 \$ 306,900

 Less: Original cost
 300,000

 Net appreciation
 \$ 6,900

Plus: Payments of principal on the note during the year:

(270,000 - 268,155) \$ 1,845 **Build up in equity** \$ 8,745

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Problem #36

A building, including the land upon which it sits, is purchased on 7/1/X2 for \$400,000 with 10% of the price paid for in cash and the remainder through the execution of a Mortgage Note Payable. The mortgage note bears an 8% fixed interest rate compounding monthly for 30 years and is fully amortizing with monthly payments of \$2,641.55 due on the 1st of each month beginning on 8/1/X2.

- **A.** Prepare the journal entry to record the purchase of the land and building on 7/1/X2. (Assume that the land is valued at 20% of the total price.)
- **B.** Why would allocation of the purchase price between land and building be important for financial reporting and income tax purposes?
- C. Prepare the 8/1/X2 and 9/1/X2 entries to record the monthly mortgage payments on those dates.

Problem #36

- **D.** Determine the balance of the Mortgage Note Payable on 9/1/X2 following the monthly payment on that date.
- **E.** What would be the effect if monthly payments in excess of \$2,641.55 were periodically made?

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Problem #36 - Answer

A building, including the land upon which it sits, is purchased on 7/1/X2 for $\$400,\!000$ with 10% of the price paid for in cash and the remainder through the execution of a Mortgage Note Payable. The mortgage note bears an 8% fixed interest rate compounding monthly for 30 years and is fully amortizing with monthly payments of \$2,641.55 due on the 1st of each month beginning

A. Prepare the journal entry to record the purchase of the land and building on 7/1/X2. (Assume that the land is valued at 20% of the total price.)

Land Building	80,000 320,000	
Mortgage Note Payable Cash		360,000 40,000

Problem #36 - Answer

B. Why would allocation of the purchase price between land and building be important for financial reporting and income tax purposes?

Land is not depreciable. The greater the allocation to the building, which is depreciable, the higher the depreciation expense and lower resulting net income for financial reporting purposes. This would also result in lower

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Problem #36 - Answer

C. Prepare the 8/1/X2 and 9/1/X2 entries to record the monthly mortgage payments on those dates.

8/1/X2:

Interest Expense	2,400.00	
Mortgage Note Payable	241.55	
Cash		2,641.55

9/1/X2:

Interest Expense	2,398.39	
Mortgage Note Payable	243.16	
Cash		2,641.55

Problem #36 - Answer

E. What would be the effect if monthly payments in excess of

The term of the note would be shortened. The note would be

\$2,641.55 were periodically made?

paid off in less than 30 years.

Problem #36 - Answer

D. Determine the balance of the Mortgage Note Payable on 9/1/X2 following the monthly payment on that date.

Mortgage Note Payable

		360,000 7/1/X2
8/1/X2	241.55	
9/1/X2	243.16	
		359,515.29

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Bonds

Bonds are Notes Payable arising from the borrowing of cash from the public.

Example: On 11/1/X3, XYZ Corporation issued \$1,000,000 of cash through bonds issued at face value, bearing interest at an annual rate of 7% payable semi-annually on 5/1 and 11/1 of each year through maturity at 11/1/X6.

Cash Bonds Payable 1,000,000

Adjusting Entry at 12/31/X3:

(Interest: $1,000,000 \times .07 \times 2/12 = 11,667$)

11,667 Interest Expense Interest Payable 11,667

Entry at 11/1/X3:

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Entry at 5/1/X4: (Interest: $1,000,000 \times .07 \times 6/12 = 35,000$) (Interest: $1,000,000 \times .07 \times 4/12 = 23,333$) Interest Payable 11,667 23,333 Interest Expense 35,000 Cash Entry at 11/1/X4: Interest Expense 35,000 Cash 35,000 Entry at Maturity, 11/1/X6: Bonds Payable 1,000,000 1,000,000 Cash Interest Expense 35,000 35,000 Cash

Common Terms Associated with Bonds

Bond Indenture: The written contract that spells out the legal terms and conditions of the obligations of the bond issuer and the rights of the bondholders.

Debentures: Unsecured bonds.

Secured or Mortgage-Backed Bonds: Bonds for which property or real estate are specified as collateral.

Junk Bonds: Unsecured bonds issued by companies with low credit ratings.

Senior or Subordinated Bonds: Typically unsecured bonds that are designated as having priority or subordinated rights to other unsecured creditors.

Term Bonds: Bonds that require principal repayment in full at maturity.

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Serial Bonds: Bonds that require principal repayment periodically throughout the term of the bond.

Convertible Bonds: Bonds which may be converted to other securities, such as stock, after a specified period of time, at the option of the bondholder.

Callable Bonds: Bonds which can be paid off prior to maturity at the option of the company issuing the bonds.

Bonds issued at a premium or a discount: Bonds which are issued for cash in an amount greater or less than the face amount or principal of the

Bond Exchange: A market where bondholders may sell their bonds to other investors.

Problem #37

On 8/1/X3, a company borrows \$10,000,000 cash from the public through the issuance of bonds that mature in three years and bear interest at a rate of 9%. The interest is payable quarterly.

a. Prepare the journal or adjusting entries required to record:

8/1/X3: The issuance of the bonds at their face value of \$10,000,000

11/1/X3: The quarterly interest payment

12/31/X3: The adjusting entry for interest expense

2/1/X4: The quarterly interest payment

8/1/X6: The final quarterly interest payment and payoff of the principle amount of the bonds

2

Problem #37

- b. What entry would the company make on their books if a bondholder owning \$10,000 of the bond sold that bond to an investor through the New York Bond Exchange at a price of \$10,500?
- c. What is a debenture?
 - What is a mortgage bond?
 - What is a junk bond?
 - What is a serial as opposed to a term bond?
 - What is a convertible bond?
 - What is a callable bond?

Problem #37 - Answer a. 8/1/X3: The issuance of the bonds at their face value of \$10,000,000 Cash 10,000,000 **Bonds Payable** 10,000,000 11/1/X3: The quarterly interest payment **Interest Expense** 225,000 Cash 225,000 (Interest: $10,000,000 \times .09 \times 3/12 = 225,000$) 12/31/X3: The adjusting entry for interest expense 150,000 Interest Expense 150,000 **Interest Payable** (Interest: $10,000,000 \times .09 \times 2/12 = 150,000$)

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Problem #37 - Answer a. (continued) 2/1/X4: The quarterly interest payment **Interest Payable** 150,000 **Interest Expense** 75,000 Cash 225,000 (Interest: $10.000,000 \times .09 \times 1/12 = 75,000$) 8/1/X6: The final quarterly interest payment and payoff of the principle amount of the bonds 225,000 **Interest Expense** 10,000,000 **Bond Payable** Cash 10,225,000

Problem #37 - Answer

- b. No entry on the company's books.
- c. What is a debenture? Unsecured bond.

What is a mortgage bond? Bond for which property or real estate is specified as collateral.

What is a junk bond? Unsecured bond issued by a company with a low credit rating.

What is a serial as opposed to a term bond?

Serial: Bond that requires principal repayment periodically throughout the term of the bond.

Term: Bond that requires principal repayment in full at maturity.

What is a convertible bond? Bonds which may be converted to other securities, such as stock, after a specified period of time, at the option of the bondholder.

What is a callable bond? Bond which can be paid off prior to maturity at the option of the company issuing the bond.

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Financing of a Business

(Obtaining resources necessary to operate a business)

1. Debt Financing (Borrowing):

Accounts Payable Notes Payable Bonds Payable Other Payables

2. Equity Financing (Investor/Owners):

Capital Contributions (Capital Stock) Retained Earnings

Two Basic Forms of Corporate Ownership or Capital Stock

Common Stock: The basic form of ownership for all corporations. Common stockholders have the right to vote in corporate matters (ie. election of a board of directors), the right to share equally per share in corporate profits paid out as dividends and any distributions to owners in the event of business termination. All companies issue common stock and are controlled or owned by the common stockholders or owners.

Preferred Stock: A supplemental form of ownership which provides certain preferential but limited rights to those of common shareholders. Preferred shareholder's typically have no voting rights but have a limited priority right over common shareholders to dividends and distributions in the event of termination. Many companies do not issue preferred stock, but it is an option available in the financing of a business.

\$100

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Common Stock

Example: A company issues 10,000 shares of \$.01 par value common stock for \$50 per share.

Cash	500,000	
Common Stock, at par (\$.01) per share		100
Paid in Capital in Excess		
of Par, Common Stock		499,900

Balance Sheet

Stockholders' Equity:

Contributed Capital:

Common Stock, \$.01 Par Value \$100 Paid in Capital in Excess of Par, Common Stock Retained Earnings

499,900 \$500,000 250,000 Total Stockholders' Equity \$750,000

Example: A company issues **10,000** shares of **\$.01** stated value common stock for \$50 per share.

Cash	500,000	
Common Stock, at Stated Value (\$.01)		100
per share Paid in Capital in Excess of		
Stated Value, Common Stock		499,900

Balance Sheet

Stockholders' Equity:

Contributed Capital: Common Stock, \$.01 Stated Value Paid in Capital in Excess of Stated

499,900 Value, Common Stock \$500,000 250,000 Retained Earnings Total Stockholders' Equity \$750,000

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Example: A company issues **10,000** shares of no par value common stock for **\$50** each in cash.

Balance Sheet

Stockholders' Equity:

Contributed Capital: Common Stock

\$500,000

Retained Earnings Total Stockholders' Equity

\$750,000

Disadvantages in raising capital through the issuance of common stock:

- 1. Others are given a vote and say in the business.
- Others are given rights to participate in the monetary benefits of ownership (dividends, increased stock values, and proceeds in the event of liquidation).

Disadvantages of raising capital through debt:

- Capital borrowed (principal) must be paid back plus interest at scheduled times regardless of operating performance and ability to pay.
- 2. Potential forced liquidation of assets in the event of default.

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1.1

Preferred Stock

Preferred Stock is a form of equity ownership that is designed to avoid the disadvantages of common stock without becoming debt that has to be repaid in the future.

Preferred Stock is:

- 1. typically non-voting,
- 2. limited in the sharing of dividend distributions,
- reflected as "owners equity" on the balance sheet because the company is not required to repay the amount of capital contributed by preferred shareholders except in the event of business termination.

Why would anyone ever make capital contributions to a company in exchange for preferred stock?

- Preferred shareholders have dividend limitations but they also have dividend preferences over common shareholders.
- Preferred shareholders have preferences in the distribution of assets in the event of business termination.
- 3. Some tax benefits to corporate investors.

How is the dividend preference determined?

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Example: In addition to 10,000 shares of no par value common stock issued at \$50 per share, the company issues 5,000 shares of 7%, \$100 par value preferred stock for \$105 per share.

Cash Preferred Stock 525,000 525,000

.07 x \$100 = \$7 per share, per year



 $\frac{\$7}{\$105} = 6.67\%$

Annual return on investment

How does a preferred shareholder ever get their money (investment) back?

- 1. Wait until the business terminates.
- 2. Sell to other investors.

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Problem #38

The Asay Co. wishes to raise \$100,000 of cash from investors (equity financing). Prepare the journal entry that would be appropriate for each of the following independent scenarios:

- Issue 10,000 shares of \$.01 par value common stock for \$100,000 cash.
- Issue 10,000 shares of \$.01 stated value common stock for \$100,000 cash
- c. Issue 10,000 shares of no par common stock for \$100,000 cash.
- d. Issue 5,000 shares of 6% \$15 par value preferred stock for \$100,000 cash.

Calculate the annual dividend preference for the 5,000 shares of preferred stock under D above.

١.	Cash Common Stock, Par Value Paid-In Capital in Excess	100,000	100
	of Par, Common Stock		99,900
).	Cash Common Stock Stated Value	100,000	100
	Paid-In Capital in Excess of Stated Values, Common Stock		99,900
	Cash	100,000	
	Common Stock		100,000
١.	Cash	100,000	75.000
	Preferred Stock, Par Value Paid-In Capital in Excess of Par, Preferred Stock		75,000 25,000

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The Process of Dividend Declaration and Payment

Example: On 11/1/X5 the company's Board of Directors meet and declare a total dividend of \$100,000 to be paid to shareholders of record as of 12/1/X5 with actual payment to be made on 1/1/X6.

Entry at 11/1/X5 (Date of Declaration):

Dividends, Preferred Stock	35,000	
Dividends, Common Stock	65,000	
Dividends Payable		100,000

Note: Preferred shareholders will receive \$7 for every share of stock held and the common shareholders will receive 6.50 ($65,000 \div 10,000$ shares) for every share held.

Entry at 12/1/X5 (Date of Record):

No Entry

Entry at 11/1/X5 (Date of Declaration): Dividends, Preferred Stock 35,000 Dividends, Common Stock 65,000 Dividends Payable 100,000 Entry at 12/1/X5 (Date of Record): No Entry Closing Entry at 12/31/X5: Retained Earnings 100,000 Dividends, Preferred Stock 35,000 Dividends, Common Stock 65,000 Entry at 11/1/X6 (Date of Payment): Dividends Payable 100,000 Cash

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Assume only \$20,000 of dividends had been declared on 11/1/X5 Entry at 11/1/X5 (Date of Declaration):

•	`		′		
Dividends, I	Preferred Stoo	ck		20,000	
Divid	ends Payable				20,000

Dividend Preference: $7\% \times $100 \times 5,000 \text{ shares} = $35,000$

Do the preferred shareholders have any ongoing future rights to the **\$15,000** deficiency in current year dividends?

- If preferred stock is designated as "cumulative," shareholders have an ongoing carryover preference for any prior year dividend shortfalls referred to as "dividends in arrears."
- "Non-cumulative" preferred stock has no carryover rights on dividend shortages in any year.

How are the rights of preferred shareholders to dividends in arrears disclosed in the financial statements?

- Are they a liability? NO!
- Dividends in arrears are disclosed in the footnotes to the financial statements.

Example: If dividends in arrears on the cumulative preferred stock in the prior example amount to \$15,000 in 20X5, and declared dividends for 20X6 amount to \$75,000, how much would go to the preferred versus common shareholders?

Preferred Dividend:

20X5 arrears of \$15,000 20X6 preference 35,000 Total Dividend \$50,000

Common Dividend: \$25,000

How much goes to the Preferred vs. Common Shareholders if a **\$10,000,000** dividend was declared?

Preferred - \$50,000 Common - \$9,950,000

What kind of stock (Preferred vs. Common) would an aggressive investor looking to maximize profits prefer to own?

Common Stock

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Problem #39

Prepare the journal entries for Smith Co. for the following events:

- A. 11/1/X7 The board of directors declares a \$100,000 cash dividend payable to common shareholders with a date of record of 12/1/X7 and date of payment scheduled for 1/1/X8.
- B. 12/1/X7 Date of record noted.
- C. 12/31/X7 Closing entry made.
- 1/1/X8 payment of \$100,000 cash dividend made prorata to all common shareholders.

1.	Dividends, Common Stock	100,000	
	Dividends Payable		100,000
) .	No entry.		
:.	Retained Earnings	100,000	
	Dividends, Common Stock		100,000
l.	Dividends, Payable	100,000	
	Cash		100,000

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Problem #40

Given the following information at year-end, prepare the Stockholders' Equity section of a balance sheet:

Accounts Receivable	\$ 150,000
Dividends, Common Stock	350,000
Common Stock, \$.01 par value, 20,000 shares	200
Retained Earnings (Beginning of year)	625,000
Paid in Capital in Excess of Par, Preferred Stock	30,000
Bonds Payable	3,000,000
Dividends, Preferred Stock	50,000
Preferred Stock, \$50 par value, 10,000 shares	500,000
Paid in Capital in Excess of Par, Common Stock	900,000
Net Income	550,000

Questions:

- A. At what average price per share has the company's Common Stock been issued? Preferred Stock?
- B. Assuming that no dividends are in appears at the beginning of the year, determine the rate of the dividend preference for preferred stock.

Problem #40 - Answer **Balance Sheet** Stockholders' Equity: Contributed Capital -Preferred Stock, \$50 par value, Retained Earnings, \$500,000 \$625,000 10,000 shares beginning Common Stock, \$.01 par value, Add: Net Income 550,000 (400,000) **20,000** shares 200 Less: Dividends Paid in Capital in Excess of Par, Retained Earnings, 30,000 \$775,000 Preferred Stock ending Paid in Capital in Excess of Par, 900,000 Common Stock 1,430,200 **Retained Earnings** 775,000 Total Stockholders' Equity **Ouestions: A.** Common Stock = $\frac{$200 + $900,000}{}$ <u>\$500,000 + \$30,0</u>00 Preferred Stock = **20,000** shares 10,000 shares \$45.01 per share \$53.00 per share **B.** Dividend preference rate \$500,000

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Problem #41

Given the following capital structure for the years 20X3, 20X4, and 20X5:

 Preferred Stock, 7% \$20
 \$1,000,000

 par value, 50,000 shares
 \$1,000,000

 Common Stock, \$.50
 50,000

 par value, 100,000 shares
 50,000

 Paid in Capital in Excess of Par,
 100,000

 Paid in Capital in Excess of Par,
 2,000,000

Calculate the total amount of dividends to be distributed to the preferred vs. common stockholders in each year if the total dividend amounts to \$100,000 in 20X3, \$50,000 in 20X4 and \$500,000 in 20X5 under the following two assumptions:

- **A.** The preferred stock is non-cumulative.
- B. The preferred stock is cumulative and dividends in arrears at 12/31/X2 amount to \$100,000.

Question: Should preferred dividends in arrears at the end of an accounting period be reflected as a liability on the balance sheet? Why?

Problem #41 - Answer

Calculate the total amount of dividends to be distributed to the preferred vs. common stockholders in each year if the total dividend amounts to \$100,000 in 20X3, \$50,000 in 20X4 and \$500,000 in 20X5 under the following two assumptions:

A. The preferred stock is non-cumulative.

 20X3
 20X4
 20X5

 Preferred stock:
 \$70,000
 \$50,000
 \$70,000

 Common stock:
 \$30,000
 0
 \$430,000

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Problem #41 - Answer

Calculate the total amount of dividends to be distributed to the preferred vs. common stockholders in each year if the total dividend amounts to \$100,000 in 20X3, \$50,000 in 20X4 and \$500,000 in 20X5 under the following two assumptions:

B. The preferred stock is cumulative and dividends in arrears at 12/31/X2 amount to \$100,000.

		20X3	20X4	20X5	
Preferred Stock: Arrears	\$ 100,000		\$ 50,000	\$ 90,000	
Current Preference	\$	0	\$ 0	\$ 70,000	
Common Stock	\$	0	\$ 0	\$ 340,000	
Preferred Dividends in Arrears @ Year End	\$	70,000	\$ 90,000	\$ 0	

Answer: Preferred dividends in arrears are not to be reflected as a liability on the balance sheet because a company has no legal obligation to ever pay dividends unless the board of directors officially declares a dividend distribution. The amount of dividends in arrears is typically disclosed in the footnotes to the financial statements.