

MBA in Food & Agribusiness Financial Management

Contributed Capital

Purchase of Treasury Stock Illustrated

On Sept. 15, Caprock Corporation purchases 1,000 shares of its common stock on the market **for \$50 per share.**

When treasury stock is purchased, it is usually recorded at cost:

Sept. 15 Treasury Stock, Common Cash

50,000

50,000

Acquired 1,000 shares of the company's common stock for \$50 per share

Purchase of Treasury Stock illustrated

Stockholders' Equity Section

Contributed capital

Common stock, \$5 par value, 100,000 shares

authorized, 30,000 shares issued, 29,000 shares

outstanding

Additional paid-in capital

Total contributed capital

Retained earnings

Total contributed capital and retained earnings

Less treasury stock, common (1,000 shares at cost)

Total stockholders' equity

\$150,0	00
---------	----

30,000

\$180,000

900,000

\$1,080,000

50,000

\$1,030,000

Notice that the number of shares issued, and therefore legal capital, has not changed even though the number of shares outstanding has decreased.

Common Stock Transactions and Stockholders' Equity

P 1. Sussex Corporation began operations on September 1, 20xx. The corporation's charter authorized 300,000 shares of \$8 par value common stock. Sussex Corporation engaged in the following transactions during its first quarter:

Sept. 1 Issued 50,000 shares of common stock, \$500,000.

1 Paid an attorney \$32,000 to help start up and organize the corporation and obtain a corporate charter from the state.

Oct. 2 Issued 80,000 shares of common stock, \$960,000.

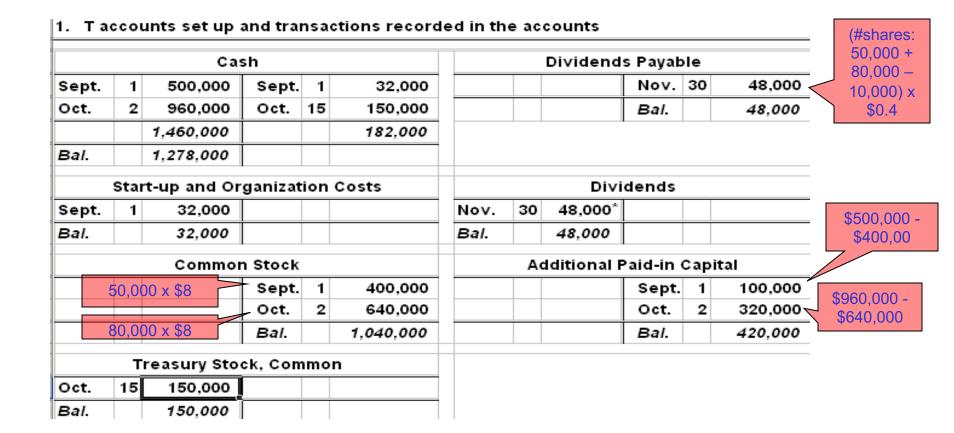
15 Purchased 10,000 shares of common stock for \$150,000.

Nov. 30 Declared a cash dividend of \$.40 per share to be paid on December 15 to stockholders of record on December 10.

Required

- 1. Prepare entries in T accounts to record the above transactions.
- 2. Prepare the stockholders' equity section of Sussex Corporation's balance sheet on November 30, 20xx. Net income for the quarter was \$80,000.

Answer



2. Stockholders' equity section of the balance sheet prepared	
Sussex Corporation	
Balance Sheet	
November 30, 20xx	
Stockholders' Equity	
Contributed capital	
Common stock, \$8 par value, 300,000 shares	
authorized, 130,000 shares issued and	
120,000 shares outstanding	\$1.040.000
Additional paid-in capital	420.000
Total contributed capital	\$1.460.000
Retained earnings*	32.000
Total contributed capital and retained earnings	\$1.492.000
Less treasury stock, common (10,000 shares at cost)	150.000
Total stockholders' equity	\$1.342.000
* \$80.000 œ \$48.000 = \$32.000	-

Preferred and Common Stock Dividends and Dividend Yield

P 2. The DeMeo Corporation had both common stock and preferred stock outstanding from 20x7 through 20x9. Information about each stock for the three years is as follows:

Type	Par Value	Shares Outstanding	Other
Preferred	\$100	40,000	7% cumulative
Common	20	600,000	

The company paid \$140,000, \$800,000, and \$1,100,000 in dividends for 20x7 through 20x9, respectively. The market price per common share was \$15 and \$17 per share at the end of years 20x8 and 20x9, respectively.

Required

- 1. Determine the dividends per share and total dividends paid to the common and preferred stockholders each year.
- 2. Assuming that the preferred stock was noncumulative, repeat the computations performed in requirement 1.
- 3. Calculate the 20x8 and 20x9 dividends yield for common stock using dividends per share computed in requirement 2.

Answer

1. Dividends calculated for cumulative preferred stock and common stock

40,000 x	Cumula	ative				
\$100 X 0.07 = \$280,000 per	Preferre	d Stock	Common	Stock		•
year	Divide	nds	Divide	nds	Total	'
		Per		Per	Dividends	
	Amount	Share	Amount	Share	Allocated	
20x7	\$140,000	\$ 3.50			\$ 140,000	•
20x8						\$800,000
Dividends in arrears,		\$140,000 40,000	<i>I</i>			\$420,000 \$380,00
20x7	\$140,000					\$1,100,0
20x8 dividends	280,000		\$380,000			- \$280,00 = \$820,00
Totals	\$420,000	\$10.50	\$380,000	\$0.63*	\$ 800,000	
20x9	\$280,000	\$ 7.00	\$820,000	\$1.37 [*]	\$1,100,000	

2. Dividends ca	Iculated for noncumul	lative prefe	erred stock ar	nd common	stock
	Noncum	ulative			
	Preferred	Stock	Commor	Stock	
	Divide	ends	Divide	ends	Total
		Per		Per	Dividends
	Amount	Share	Amount	Share	Allocated
20x7	\$140.000	\$ 3,50			\$ 140.000
20x8	\$280.000	\$ 7,00	\$520.000	\$0,87 *	\$ 800.000
20x9	\$280.000	\$ 7,00	\$820.000	\$1,37 *	\$1.100.000

Dividends Yield Ratio

Tells investors how much they can expect to receive in dividends expressed as a percentage of the market price per share

Dividends Yield =
$$\frac{\text{Dividends per Share}}{\text{Market Price per Share}}$$

Microsoft =
$$\frac{\$0.32}{\$24.20}$$
 = 1.3%

Dividends Yield	Dividends per Share Market Price per Share	
	20x6	
	\$0,87 = 5,8%	
	\$15,00	
	20x7	
	\$1,37 = 8,1%	
	\$17,00	

The Corporate Income Statement and the Statement of Stockholder's Equity

Stock Dividends Illustrated

Geminix Corporation declares a 10 percent stock dividend on February 24, distributable on March 31 to stockholders of record on March 15. The market price of the stock on February 24 is \$20 per share.

Date of Declaration:

60,000 Common Stock Distributable

15,000

45,000

Additional Paid-in Capital

Declared a 10 percent stock dividend on common stock, distributable on March 31 to stockholders of record on March 15 30,000 shares x . 10 = 3,000 shares3,000 shares x \$20/share = \$60,000

3,000 shares x \$5/share = \$15,000

Stock Split Illustrated

July 15: Calderon Corporation's 30,000 shares of \$5 par value common stock issued and outstanding were split 2 for 1.

Common Stock	Before Stock Split	After Stock Split
Shares issued and outstanding	30,000	60,000
Par value per share	\$5.00	\$2.50
Amount of common stock equity	\$150,000	\$150,000

A stock split does not increase the number of shares authorized, nor does it change the balances in the accounts in the stockholders' equity section of the balance sheet.

No journal entry required, memorandum entry is appropriate.

Dividends, Stock Splits, and Stockholders' Equity

P4. The stockholders' equity section of the balance sheet of Pittman Corporation as of December 31, 20x7, was as follows:

Contributed capital

Contributed capital	
Common stock, \$4 par value, 500,000 shares authorized, 200,000 shares issued and outstanding	\$ 800,000
	$\frac{1,000,000}{\$1,800,000}$ $1,200,000$
Retained earnings Total stockholders' equity	\$3,000,000

Pittman Corporation had the following transactions in 20x8:

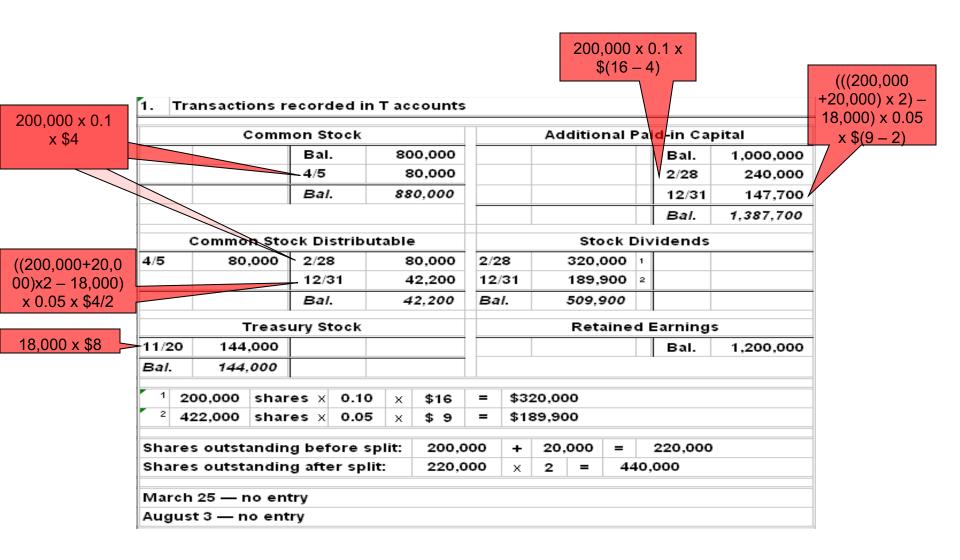
Dittman	Corpo	oration had the following transactions in 2011
Feb.	28	The board of directors declared a 10 percent stock dividend
		April 5. The market value on this date is \$10.
Mar.	25	Date of record for stock dividend.
Apr.	5	Issued stock dividend.
Aug.	3	Declared a 2-for-1 stock split. Purchased 18,000 shares of the company's common stock at
Nov.	20	Purchased 18,000 snares of the company of
Dec.	31	\$8 per share for the treasury. Declared a 5 percent stock dividend to stockholders of record on January 25 to be distributed on February 5. The market value per share was \$9.

Required

1. Record the stockholders' equity components of the transactions for Pittman Corporation in T accounts.

- 2. Prepare the stockholders' equity section of the company's balance sheet as of December 31, 20x8. Assume net income for 20x8 is \$108,000.
- 3. If you owned 1,000 shares of Pittman stock on February 1, 20x8, how many shares would you own February 5, 20x9? Would your proportionate share of the ownership of the company be different on the latter date than it was on the former date? Explain your answer.

Answer



		((200,000+20,0 00)x2 – 18,000)
Pittman Corporation	. – 10,000	$\frac{x_0.05}{}$
Stockholders' Equity		
December 31, 20x8		
Contributed capital		
Common stock, \$2 par value, 500,000 shares		
authorized, 440,000 shares issued, 422,000		
shares outstanding	\$ 880.000	
Common stock distributable, 21,100 shares	42.200	
Additional paid-in capital	1.387.700	
Total contributed capital		\$2.309.900
Retained earnings*		798.100
Total contributed capital and retained earnings		\$3.108.000
Less treasury stock, common (18,000 shares, at cost)		144.000
Total stockholders' equity		\$2.964.000
*\$1.200.000 œ \$320.000 œ \$189.900 + \$108.000	0 = \$798.10	00

ır you owned	1,000 shares of Pittman on Februa	iry 1, 20x8, you would	d own 2,310
shares on Fe	bruary 5, 20x9 (calculation below).		
Your proport	ionate share would be the same b	ecause other sharel	nolders woul
	ne proportionate distributions.		
Feb. 1, 20x8:	Original holding	1,000	shares
Apr. 5, 20x8:	Stock dividend	100	1,000
Aug. 3, 20x8:	Stock split	1,100	2 for 1
	Ohn all dividend	110	
Feb. 5, 20x9:	Stock dividend	<u>110</u>	2.200 x

Comprehensive Stockholders' Equity Transactions

P 6. On December 31, 20x7, the stockholders' equity section of Tsang Company's balance sheet appeared as follows:

Contributed capital

Common stock, \$8 par value, 200,000 shares authorized, 60,000 shares issued	
and outstanding	\$ 480,000
Additional paid-in capital	1,280,000
Total contributed capital	\$1,760,000
Retained earnings	824,000
Total stockholders' equity	\$ 2,584,00

The following are selected transactions involving stockholders' equity in 20x8: On January 4, the board of directors obtained authorization for 20,000 shares of \$40 par value noncumulative preferred stock that carried an indicated dividend rate of \$4 per share and was callable at \$42 per share. On January 14, the company sold 12,000 shares of the preferred stock at \$40 per share and issued another 2,000 in exchange for a building valued at \$80,000. On March 8, the board of directors declared a 2-for-1 stock split on the common stock. On April 20, after the stock split, the company purchased 3,000 shares of common stock for the treasury at an average price of \$12 per share; 1,000 of these shares subsequently were sold on May 4 at an average price of \$16 per share. On July 15, the board of directors declared a cash dividend of \$4 per share on the preferred stock and \$.40 per share on the common stock. The date of record was July 25. The dividends were paid on August 15. The board of directors declared a 15 percent stock dividend on November 28, when the common stock was selling for \$20. The date of record for the stock dividend was December 15, and the dividend was to be distributed on January 5.

Required

- 1. Record the above transactions in journal form.
- 2. Prepare the stockholders' equity section of the company's balance sheet as of December 31, 20x8. Net loss for 20x8 was \$218,000. (Hint: Use T accounts to keep track of transactions.)
- 3. Compute the book value per share for preferred and common stock (including common stock distributable) on December 31, 20x7 and 20x8, using end-of-year shares outstanding. What effect would you expect the change in book value to have on the market price per share of the company's stock?

Answer

		12,000	x \$40		
1. TI	rans	sactions recorded			
20×8					
Jan.	4	No entry required.			
		Cash	480,000		
		Preferred Stock	-100,000	480.000	
		Sold 12,000 shares of \$40 par value preferred		,	
		stock at \$40			
	14	Building	80.000		2,000 x \$40
		Preferred Stock		80,000	
		Issued 2,000 shares of preferred stock in			
		exchange for a building valued at \$80,000			
Mar.	8	Memo: The 60,000 shares of \$8 par value common s	tock that are	issued	
		and outstanding were split 2 for 1, resulting in 120,0	00 shares of	\$4 par	
		value common stock issued and outstanding.			
Apr.	20	Treasury Stock, Common	36,000		
		Cash		36,000	
		Purchased 3,000 shares of common stock for			1,000 x \$16
		the treasury at \$12 per share			
May	4	Cash	16,000		
		Treasury Stock, Common		12,000	1,000 x \$12
		Paid-in Capital, Treasury Stock		4,000	,
		Sold 1,000 shares of treasury stock for \$16			
		per share; originally purchased for \$12 per			Or Retained
		share			Earnings
July	15	Dividends	103,200		
		Dividends Payable		103,200	
		Declared a cash dividend of \$4 per share on			
		14,000 shares of preferred stock and \$0.40			
		per share on 118,000 shares of common stock			
		\$56,000 + \$47,200 = \$103,200			
	25	No entry required.			

20x8						
Aug.	15	Divid	dends Payable	103,200		
		С	ash		103,200	118,000 x
			Paid cash dividends to preferred and			0.15 x \$20
			common stockholders			
Nov.	28	Stoc	k Dividends	354,000		118,000 x 0.15 x \$4
		С	ommon Stock Distributable		70,800	
		Α	dditional Paid-in Capital		283,200	
			Declared a 15 percent stock dividend on			
			118,000 shares of common stock; market			
			value was \$20 per share; par value is \$4			
			per share			
			17,700 shares × \$20 = \$354,000			
Dec.	15	No e	ntry required.			

	Preferre	d Stock			Commo	on Stock	
		1/14/x8	480,000			Bal.	480,000
		1/14/x8	80,000				
		Bal.	560,000				
Coi	nmon Stoci	k Distribut	able	-	dditional F	aid-in Cap	ital
		11/28/x8	70,800			Bal.	1,280,000
						11/28/x8	283,200
						Bal.	1,563,200
Paid	-in Capital,	Treasury	Stock		Retained	l Earnings	
		5/4/x8	4,000	7/15/x8	103,200*	Bal.	824,000
				11/28/x8	354,000*		
				12/31/x8	218,000		
						Bal.	148,800
Tı	easury Sto	ck, Comm	on				
/20/x8	36,000	5/4/x8	12,000		with the selling	.	16
al.	24,000			per si	are was alrea	ady included	

Tsang Company	
Stockholders' Equity	
December 31, 20x8	
Contributed capital	
Preferred stock, \$40 par value, \$4 dividend,	
20,000 shares authorized, 14,000 shares	
issued and outstanding	\$ 560.000
Common stock, \$4 par value, 200,000 shares	
authorized, 120,000 shares issued,	
118,000 shares outstanding	480.000
Common stock distributable, 17,700 shares	70.800
Additional paid-in capital	1.563.200
Paid-in capital, treasury stock	4.000
Total contributed capital	\$2.678.000
Retained earnings	148.800
Total contributed capital and retained earnings	\$2.826.800
Less treasury stock, common (2,000 shares, at cost)	24.000
Total stockholders' equity	\$2.802.800

Book Value

Book Value per Share =
$$\frac{\text{Total Stockholders' Equity}}{\text{Total Common Shares Outstanding}}$$

When a company has both common and preferred stock, subtract the call value of the preferred stock plus any dividends in arrears from total stockholders' equity. (Use par value if call value is not specified.)

			_								
ece	mb	er 31, 20)	(7								
C	om	nmon stoc	k:								
	\$2,	,584,000	÷	60,000	share	s =	\$43.07*	per	share		
ece	mb	er 31, 20)	(8								
P	ref	ferred sto	ck:						٨ ٤ ٠ - ١		nlit and
	⊢C.	all price o	of \$4	12 egual	s book	valu	ie per sh	are		the stock s	
	С	all price o	of \$4	12 equal	s book	valu	ie per sh	are		reasury sto	
С		all price o		12 equal	s book	valu	ie per sh	are			
C	om	•	k:	42 equal		valu ÷ (·		tr	easury sto	ck
C	om	nmon stoc	k: 0	- \$560	,000)		118,000	sha	tr	17,700	ck
	om	nmon stoc \$2,802,80	k: 0	- \$560	,000)	÷ (118,000	sha	res +	17,700	ck
-	om (:	mon stoc \$2,802,80 \$2,242,800	k: 0	- \$560 ÷ 135	,000) ,700 s	÷ (118,000 s = \$1	sha 6.53	res +	17,700 hare	ck
=	com	mon stoc \$2,802,80 \$2,242,800	k: 0 -	- \$560 ÷ 135	,000) ,700 s	÷ (118,000 s = \$1	sha 6.53	res +	17,700 hare	shares)
= ook	com	nmon stoc \$2,802,800 \$2,242,800 lue per si	k: 0 -	- \$560 ÷ 135	,000) ,700 s	÷ (118,000 s = \$1	sha 6.53	res +	17,700 hare	shares)
= ook	om (: = : va	1mon stoc \$2,802,800 \$2,242,800 Slue per sl her factor	k: 0 -	- \$560 ÷ 135	,000) ,700 s	÷ (118,000 s = \$1	sha 6.53	res +	17,700 hare	shares)