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 | Acquired 1,000 shares of the |
| :--- |
| company's common stock for |
|  |
|  |
|  |

## 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 earhings
Less treasury stock, common ( 1,000 shares at cost)
Total stockholders' equity

| $\$ 150,000$ |
| ---: |
| 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. I 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

1. T accounts set up and transactions recorded in the accounts

| 1. T |  | up | d tran | sa | ons record | in |  | unts |  |  |  | (\#shares:$\begin{gathered} 50,000+ \\ 80,000- \\ 10,000) \mathrm{x} \\ \$ 0.4 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cash |  |  |  |  |  | Dividends Payable |  |  |  |  |  |  |
| Sept. | 1 | 500,000 | Sept. | 1 | 32,000 |  |  |  | Nov. | 30 | 48,000 |  |
| Oct. | 2 | 960,000 | Oct. | 15 | 150,000 |  |  |  | Bal. |  | 48,000 |  |
|  |  | 1,460,000 |  |  | 182,000 |  |  |  |  |  |  |  |
| Bal. |  | 1,278,000 |  |  |  |  |  |  |  |  |  |  |
| Start-up and Organization Costs |  |  |  |  |  | Dividends |  |  |  |  |  |  |
| Sept. | 1 | 32,000 |  |  |  | Nov. | 30 | 48,000* |  |  |  | - |
| Bal. |  | 32,000 |  |  |  | Bal. |  | 48,000 |  |  |  | $\$ 400,00$ |
| Common Stock |  |  |  |  |  | Additional Paid-in Capital |  |  |  |  |  |  |
| $50,000 \times \$ 8$ |  |  | Sept. | 1 | 400,000 |  |  |  | Sept. | 1 | 100,000 | 960,000- |
|  |  | 2 | Oct. | 2 | 640,000 |  |  |  | Oct. | 2 | 320,000 | $\$ 640,000$ |
| 80,000 $\times$ \$8 |  |  | Bal. |  | 1,040,000 |  |  |  | Bal. |  | 420,000 |  |
| Treasury Stock, Common |  |  |  |  |  |  |  |  |  |  |  |  |
| Oct. | 15 | 150,000 |  |  |  |  |  |  |  |  |  |  |
| Bal. |  | 150,000 |  |  |  |  |  |  |  |  |  |  |

## Answer (cont.)

| 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 $\mathbf{\$ 4 8 . 0 0 0}$ |  | \$32.000 |  |

## Preferred and Common Stock Dividends and Dividend Yield

P 2. The DeMeo Corporation had both common stock and preferred stock outstanding from $20 \times 7$ through $20 \times 9$. 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 20 x 7 through 20 x 9 , respectively. The market price per common share was $\$ 15$ and $\$ 17$ per share at the end of years 20 x 8 and 20 x 9 , 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 $20 \times 8$ and 20 x 9 dividends yield for common stock using dividends per share computed in requirement 2 .

## Answer

1. Dividends calculated for cumulative preferred stock and common stock


## Answer (cont.)

| 2. Div | noncumu | tive pre | d stock | commo | stock |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Noncum | lative |  |  |  |
|  | Preferre | Stock | Commo | Stock |  |
|  | Divid |  | Divid |  | Total |
|  |  | Per |  | Per | Dividends |
|  | Amount | Share | Amount | Share | Allocated |
| 20x7 | \$140.000 | \$ 3,50 | - | - | \$ 140.000 |
| $20 \times 8$ | \$280.000 | \$ 7,00 | \$520.000 | \$0,87 ${ }^{\text {* }}$ | \$ 800.000 |
| 20x9 | \$280.000 | \$ 7,00 | \$820.000 | \$1,37${ }^{\text {* }}$ | \$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

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

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

## Answer (cont.)



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:

Feb. 24 Stock Dividend Declared
60,000
Common Stock Distributable
Additional Paid-in Capital
45,000
Declared a 10 percent stock dividend on common stock, distributable on March 31
to stockholders of record on March 15
30,000 shares x $.10=3,000$ shares
3,000 shares x $\$ 20 /$ share $=\$ 60,000$
3,000 shares $\mathrm{x} \$ 5 /$ 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

Shares issued and outstanding Par value per share
Amount of common stock equity

Before Stock Split After Stock Split
30,000
$\$ 5.00$
\$150,000

60,000
$\$ 2.50$
\$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 $31,20 \times 7$, was as follows:

Contributed capital
Common stock, $\$ 4$ par value, 500,000 shares
authorized, 200,000 shares issued and outstanding $\$ 800,000$
Additional paid-in capital
Total contributed capital
Retained earnings
Total stockholders' equity
$1,000,000$
$\$ 1,800,000$
$1,200,000$
$\$ 3,000,000$

Pittman Corporation had the following transactions in $20 \times 8$ :
Feb. 28 The board of directors declared a 10 percent stock dividend April 5. The market value on this date is $\$ 16$
Mar. 25 Date of record for stock dividend.
Apr. 5 Issued stock dividend.
Aug. 3 Declared a 2 -for- 1 stock split.
Nov. 20 Purchased 18,000 shares of the company's common stock at $\$ 8$ per share for the treasury.
Dec. 31 Declared a 5 percent stock dividend to stockholders of Dec. 31 record on January 25 to be distributed on February 5 . The market value per share was $\$ 9$.

## Requived

1. Record the stackholders' equity components of the transactions for Pittman Corporation in I accounts.
2. Prepare the stockholders' equity section of the company's balance sheet as of December 31, 20x8. Assume net income for $20 \times 8$ is $\$ 108,000$.
3. If you owned 1,000 shares of Pittman stock on February $1,20 x 8$, 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



## Answer (cont.)



## Answer (cont.)

3. User Insight: Effect of stock transactions determined

If you owned 1,000 shares of Pittman on February 1, 20x8, you would own $\mathbf{2 , 3 1 0}$ shares on February 5, 20×9 (calculation below).

Your proportionate share would be the same because other shareholders would ceive the same proportionate distributions.

| Feb. 1, 20×8: | Original holding | $\mathbf{1 , 0 0 0}$ | shares |
| :--- | :--- | ---: | ---: |
| Apr. 5, 20×8: | Stock dividend | $\mathbf{1 0 0}$ | $1,000 \times 0.1$ |
| Aug. 3, 20×8: | Stock split | $\mathbf{1 , 1 0 0}$ |  |
| Feb. 5, 20×9: | Stock dividend | $\underline{110}$ | 2 for 1 split |
| Feb. 5, 20×9: | Total owned | $\underline{2,310}$ | shares |

## Comprehensive Stockholders' Equity Transactions

P6. 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
Additional paid-in capital
Total contributed capital

$$
\$ 480,000
$$

$\frac{1,280,000}{\$ 1,760,000}$
Retained earnings
Total stockholders' equity
$\begin{array}{r}824,000 \\ \hline \$ 2,584,00 \\ \hline \hline\end{array}$

The following are selected transactions involving stockholders' equity in 20 x 8 : 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 split, the company purchased 2 -for- 1 stock split on the common stock. On April 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 $20 \times 8$ 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



## Answer (cont.)



## Answer (cont.)

T accounts for stockholders' equity


## Answer (cont.)

| 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

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

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.)

## Answer (Cont.)



