

Living in the Real World

Life after Working Shifts

Deciding to Spend or Invest Whether you're a saver or a spender, it's part of your personality. Being a saver or a spender isn't good or bad on its own, but either personality can cause problems if not managed properly. Here's a chance to test your financial personality.

Pretend someone gave you \$200, what would you do with it? Read the options below and choose three.

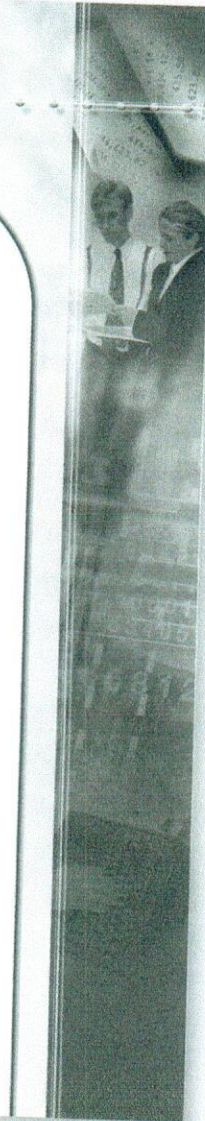
- Take my closest friend out to eat and to the movies. (5 points)
- Spend \$50 on fun items and save the rest. (3 points)
- Put the money toward my next vehicle payment. (1 point)
- Buy new clothes for school. (3 points)
- Hit the nearest music store and buy several CDs. (5 points)
- Buy a portable CD player. (3 points)
- Get a cell phone. (5 points)
- Buy a savings bond. (1 point)
- Put it in a savings account for future education. (1 point)
- Buy the hottest new concert tickets. (5 points)

What do your choices say about you?

Big Saver: If you scored 3–5 points, you're willing to give up things today so you can buy something you want more tomorrow.

Middle of the Roader: If you scored 7–11 points, you know how to use your money for current needs while keeping an eye on the future.

Big Spender: If you scored 13–15 points, wow . . . do you like to spend money!



After YOU READ

REVIEW OF KEY WORDS

certificate of deposit (p. 394)
annual yield (p. 397)
stocks (p. 400)

stock certificate (p. 400)
dividend (p. 403)
profit (p. 406)

loss (p. 406)
bonds (p. 409)

For Problems 1–8, write your own definitions for the terms above.

Skills and Concepts

SECTION OBJECTIVE 12-1 AND EXAMPLES

Use tables to compute the interest on certificates of deposit.

Celine Hocking invests \$3,500 in a 1-year certificate of deposit that earns interest at an annual rate of 4.5 percent compounded quarterly. How much interest will she earn at the end of 1 year?

STEP 1: Find the amount.

$$\begin{array}{rcl} \text{Original Principal} & \times & \text{Amount per \$1.00} \\ \$3,500 & \times & 1.045765 \\ \hline & & = \$3,660.18 \text{ amount} \end{array}$$

STEP 2: Find the interest earned.

$$\begin{array}{rcl} \text{Amount} & - & \text{Original Principal} \\ \$3,660.18 & - & \$3,500.00 \\ \hline & & = \$160.18 \text{ interest earned} \end{array}$$

REVIEW EXERCISES

Use the Amount of \$1.00 Invested—Daily, Monthly, and Quarterly Compounding table on page 800 to find the amount per \$1.00 invested.

	Annual Rate	Interest Period	Original Principal	Amount per \$1.00	Amount	Interest Earned
9.	3.00%	1 year; monthly	\$ 6,500	a.	b.	c.
10.	3.75%	4 years; daily	10,000	a.	b.	c.
11.	5.25%	1 year; daily	3,500	a.	b.	c.
12.	4.25%	4 years; monthly	90,000	a.	b.	c.
13.	4.00%	4 years; quarterly	35,000	a.	b.	c.

SECTION OBJECTIVE 12-2 AND EXAMPLES

Determine the effective annual yield.

Andy Eyre invested \$3,000 in a CD for 1 year. The certificate earns interest at an annual rate of 5.00 percent compounded monthly. What is the effective annual yield rounded to the nearest thousandth of a percent?

STEP 1: Find the interest for 1 year. (Refer to the Amount of \$1.00 Invested—Daily, Monthly, and Quarterly Compounding table on page 800.)

$$\$3,000 \times 1.051162 = \$3,153.49$$

$$\text{Amount} - \text{Principal}$$

$$\$3,153.49 - \$3,000.00 = \$153.49 \text{ interest for 1 year}$$

STEP 2: Find the effective annual yield.

Interest for 1 Year

Principal

\$153.49

\$3,000.00 = 0.05116 or 5.116% effective annual yield

REVIEW EXERCISES

Use the Amount of \$1.00 Invested—Daily, Monthly, and Quarterly Compounding table on page 800 to find the amount per \$1.00 invested.

	Annual Rate	Interest Period	Original Principal	Amount per \$1.00	Amount	Interest Earned	Effective Annual Yield
14.	3.50%	1 year; monthly	\$ 8,500	a.	b.	c.	d.
15.	5.25%	1 year; quarterly	4,500	a.	b.	c.	d.
16.	2.50%	4 years; daily	15,000	a.	b.	c.	d.
17.	4.75%	4 years; quarterly	25,500	a.	b.	c.	d.
18.	3.25%	1 year; daily	2,300	a.	b.	c.	d.
19.	2.00%	1 year; monthly	10,000	a.	b.	c.	d.

SECTION OBJECTIVE 12-3 AND EXAMPLES

Solve for the total cost of a stock investment.

Derek Abreu purchased 200 shares of stock at \$35.11 per share. His full-service stockbroker charged a \$50.00 commission for the transaction. What is the total amount he paid for the stock?

STEP 1: Find the cost of a stock.

$$\begin{array}{r} \text{Number of Shares} \times \text{Cost per Share} \\ 200 \quad \times \quad \$35.11 \quad = \quad \$7,022.00 \end{array}$$

STEP 2: Find the total paid.

$$\begin{array}{r} \text{Cost of Stock} + \text{Commission} \\ \$7,022.00 + \$50.00 \quad = \quad \$7,072.00 \text{ total paid} \end{array}$$

REVIEW EXERCISES

	Company	Number of Shares	Cost per Share	Cost of Stock	Commission	Total Paid
20.	Forestry Inc.	1,000	\$59.14	a.	\$ 7.00	b.
21.	Safety Lmt.	150	48.79	a.	50.00	b.
22.	Ross Bank	55	53.30	a.	12.99	b.
23.	Cantwell Co.	2,300	59.09	a.	39.50	b.
24.	Ott & Assor	000	---			

SECTION OBJECTIVE 12-4 AND EXAMPLES

Compute the annual yield and annual dividend of a stock investment.

Patty Slade bought 250 shares of Pine Nursery stock at \$32.57 per share. The company paid annual dividends of \$1.12 per share. What is the total annual dividend? What is the annual yield to the nearest hundredth of a percent?

STEP 1: Find the annual dividend.

$$\begin{array}{rcl} \text{Annual Dividend per Share} & \times & \text{Number of Shares} \\ \$1.12 & \times & 250 & = & \$280 \text{ annual dividend} \end{array}$$

STEP 2: Find the annual yield.

$$\begin{array}{rcl} \text{Annual Dividend per Share} & \div & \text{Cost per Share} \\ \$1.12 & \div & \$32.57 & = & 0.034387 \text{ or } 3.44\% \text{ annual yield} \end{array}$$

REVIEW EXERCISES

26. Julian Lopez bought 50 shares of stock at \$38.00 per share. The company paid annual dividends of \$0.52 per share. What is the total annual dividend? What is the annual yield to the nearest hundredth of a percent?

27. Rose Wallace owns 200 shares of stock. The stock ranged from a low of \$44.45 to a high of \$54.54 last year. The annual dividend is \$2.31 per share. What is the annual yield based on the high and the low? What is the total annual dividend?

	Stock	Annual Dividend per Share	Cost per Share	Annual Yield
28.	Stone Products	\$0.60	\$ 38.00	
29.	OFA Education	1.40	57.36	
30.	Lazenby Inc.	1.36	34.86	
31.	Cornell Supply	2.48	121.93	

SECTION OBJECTIVE 12-5 AND EXAMPLES

Calculate the profit or loss from a stock sale.

Frank Walden paid a total of \$3,066.54 for 88 shares of stock. He sold the stock for \$57.10 per share and paid a sales commission of \$49.50. What is the profit or loss from the sale?

STEP 1: Find the net sale.

$$\begin{array}{rcl} \text{Amount of Sale} & - & \text{Commission} \\ (\$57.10 \times 88) & - & \$49.50 \\ \$5,024.80 & - & \$49.50 & = & \$4,975.30 \end{array}$$

STEP 2: Is the net sale greater than total paid?

Yes, \$4,975.30 is greater than \$3,066.54.

STEP 3: Find the profit.

$$\begin{array}{rcl} \text{Net Sale} & - & \text{Total Paid} \\ \$4,975.30 & - & \$3,066.54 & = & \$1,908.76 \text{ profit} \end{array}$$

REVIEW EXERCISES

	Stock	Total Paid	Selling Price per Share	Number of Shares	Commission	Net Sale	Profit or Loss
32.	Tanner Co.	\$ 6,787	\$26.42	150	\$39.95	a.	b.
33.	Maloney Inc.	5,800	39.01	200	45.50	a.	b.
34.	Elden Mfg.	24,000	42.12	600	9.99	a.	b.
35.	S&R Electric	1,800	10.52	50	12.50	a.	b.
36.	PAE Internet	4,800	58.87	100	55.00	a.	b.
37.	Aquilla Imp.	3,250	11.70	250	7.00	a.	b.

38. Carlos and Jade Enrique bought 2,000 shares of stock at \$18.80 a share and paid a sales commission of \$50.00 plus \$0.02 a share. They sold the stock at \$21.95 per share plus a sales commission of \$45.00 plus \$0.03 per share. What was the net amount of the sale? What was the profit or loss from the sale?

SECTION OBJECTIVE 12-6 AND EXAMPLES

Compute the annual interest and annual yield of a bond investment.

Graeme Williams purchased a \$1,500 bond at the quoted price of $79\frac{3}{4}$. The bond paid interest at a rate of 5 percent. What is the annual yield to the nearest hundredth of a percent?

STEP 1: Find the annual interest.

$$\begin{array}{r} \text{Face Value} \times \text{Interest Rate} \\ \$1,500 \times 5\% = \$75 \text{ annual interest} \end{array}$$

STEP 2: Find the bond cost.

$$\begin{array}{r} \text{Face Value} \times \text{Percent} \\ \$1,500 \times 79.75\% = \$1,196.25 \text{ bond cost} \end{array}$$

STEP 3: Find the annual yield.

$$\frac{\text{Annual Interest}}{\text{Bond Cost}} = \frac{\$75}{\$1,196.25} = 0.06269 \text{ or } 6.27\% \text{ annual yield}$$

REVIEW EXERCISES

Find the bond cost and annual yield.

	Source	Face Value of Bond	Quoted Price	Cost of Bond	Interest Rate	Annual Interest	Annual Yield
39.	Diamond Co.	\$ 3,000	103.50	a.	4.50%	b.	c.
40.	Gable Inc.	1,000	82.90	a.	3.25%	b.	c.
41.	Lawns Inc.	5,000	75.25	a.	2.50%	b.	c.
42.	Bunde Sales	2,000	96.50	a.	5.50%	b.	c.