Test Bank for Personal Finance 1st Edition by Walker

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Time Value of Money

Multiple Choice Questions

- 1. In which city are coins made?
 - A. Saint Louis
 - B. Philadelphia
 - C. New York
 - D. Washington, D.C.
- 2. Paper money is produced by the _____.
 - A. Federal Reserve Bank
 - B. United States Treasury
 - C. Bureau of Engraving and Printing
 - D. Fort Knox Mint

3.	What gives money its value?
4	A. Supply and demand B. Backed by gold C. Backed by silver D. Present values
4.	What two cities are currently producing coins?
	A. Denver and Philadelphia B. Philadelphia and San Francisco C. Denver and San Francisco D. Fort Worth and Washington, D.C.
Э.	What is paper money backed by?
	A. Gold B. Gold and silver C. The full faith and credit of the U.S. government and the Federal Reserve Bank D. Silver

Which of the following is paper money backed by?
A. The U.S. president
B. The full faith and credit of the U.S. government and the Federal Reserve Bank
C. The Federal Reserve Bank
D. The Bureau of Engraving and Printing and the Federal Reserve Bank
Where is one place where paper money is printed?
A. San Francisco
B. Washington, D.C.
C. Denver
D. Philadelphia
What gives paper currency value?
A. Having a high supply and high demand
B. Having a high supply and low demand
C. Having a limited supply and relatively high demand
D. Having a low supply and low demand

	A. Wells Fargo
	B. The Federal Union
	C. The USDA
	D. The Federal Reserve
10.	Currently, which two U.S. cities produce coins for circulation?
	A. New York and Washington, D.C.
	B. Atlanta and Seattle
	C. Philadelphia and Denver
	D. Boston and Houston
11.	What is the money in the United States backed by?
	A. Gold
	B. Silver
	C. The full faith and credit of the U.S government
	D. The president's oath of office
	E. The Chinese yen

9. Paper money is backed by the credit and faith of the U.S. government and

	A. Coin mints	
	B. The Bureau of Engraving and Printing	
	C. The Federal Reserve	
	D. The president of the United States	
13.	The frequently interest is compounded, the t yield.	the
	A. More; lower	
	B. More; higher	
	C. Less; higher	
	D. Less; same	
14.	The process whereby the value of an investment increases exponentially over ti	me
	is called the	
	A. Amound in avacuate we mate	
	A. Annual percentage rate	
	B. Time value	
	C. Annual percentage yield	
	D. Compounding	

12. Who controls the circulation of money in the United States?

15.	What is the compounding of interest?
	A. The initial deposit
	B. Money in a savings account
	C. Interest found in a savings account
	D. Interest on interest added to an initial deposit
16.	The annual percentage yield indicates:
	A. How much interest is earned in a year if allowed to compound
	B. the total amount of money invested plus interest
	C. The interest rate
	D. All of these
17.	What is compounding?
	A. Depositing money in the bank
	B. When interest is added to your initial deposit and you begin to earn interest on interest
	C. Your initial deposit
	D. The amount of interest you pay on a loan

18. If you invest \$100 and receive a 12% APR (annual percentage rate), what will your balance be at the end of the year?
A. \$121.12 B. \$121.00 C. \$112.00 D. \$100.12
19. When interest is added to your initial deposit and you begin to earn interest on interest, this is known as
A. The annual percentage rateB. The time value of moneyC. CompoundingD. The future value of money
20. If you have \$3,000 today with a 10% APY, how much will you have one year from now?
A. \$3,200 B. \$3,300 C. \$3,100 D. \$3,500

- 21. Anna is going to deposit \$500 into an account that has an annual interest rate of 8% compounded quarterly. How much will she have at the end of one year?
 - A. \$541.22
 - B. \$537.68
 - C. \$546.93
 - D. \$538.15
- 22. Therese made an investment of \$1,000 into an account that pays a 10% annual interest rate which is compounded quarterly. At the end of the 12-month period, Therese earned \$103.81 in interest on her \$1,000 investment. She calculates her annual percentage yield (APY) to be 10.38%. This is an example of how interest is:
 - A. Compounded
 - B. The same as the annual percentage rate (APR)
 - C. Effected by the annual percentage yield (APY)
 - D. Part of the Truth in Savings Act
- 23. What is $(1 + r/n)^n 1$?
 - A. Future value (FV)
 - B. Annual percentage rate (APR)
 - C. Annual percentage yield (APY)
 - D. Compound percentage interest (CPI)

24. Which best describes compound interest?
A. Interest is added to a deposit
B. Interest is added to your initial deposit and you earn interest on interest
C. You pay double interest
D. You pay two separate interest rates
25. What is earning interest on interest?
A. Compounding
B. APR (annual percentage rate)
C. Savings
D. Investing
26. Which act helped eliminate investor confusion with compounding interest and the
related yields?
A. The Truth in Savings Act
B. The Compound Interest Act
C. The Interest and Yield Act
D. The Sarbanes Oxley Act

- 27. Which is *not* a component of the formula APY = $(1 + r/n)^n 1$?
 - A. N-1 = Compound minus interest rate
 - B. R = Stated annual interest rate
 - C. N = Number of times you'll compound every year
 - D. APY = Annual percentage pate
- 28. Which of the following is the correct formula for computing your annual percentage yield?

A.
$$APY = (1 + r/n)^n - 1$$

B.
$$APY = (1 - r/n) - 1$$

C. APY =
$$[(1- r)^{-n}] + 1$$

D. APY =
$$[(r - n)^{r}] - 1$$

- 29. Which example indicates discounting?
 - A. Looking for less inexpensive options when shopping
 - B. Figuring out how much money to invest now to have a certain amount in the future
 - C. Shoplifting
 - D. All of these

30. The Truth in Savings Act

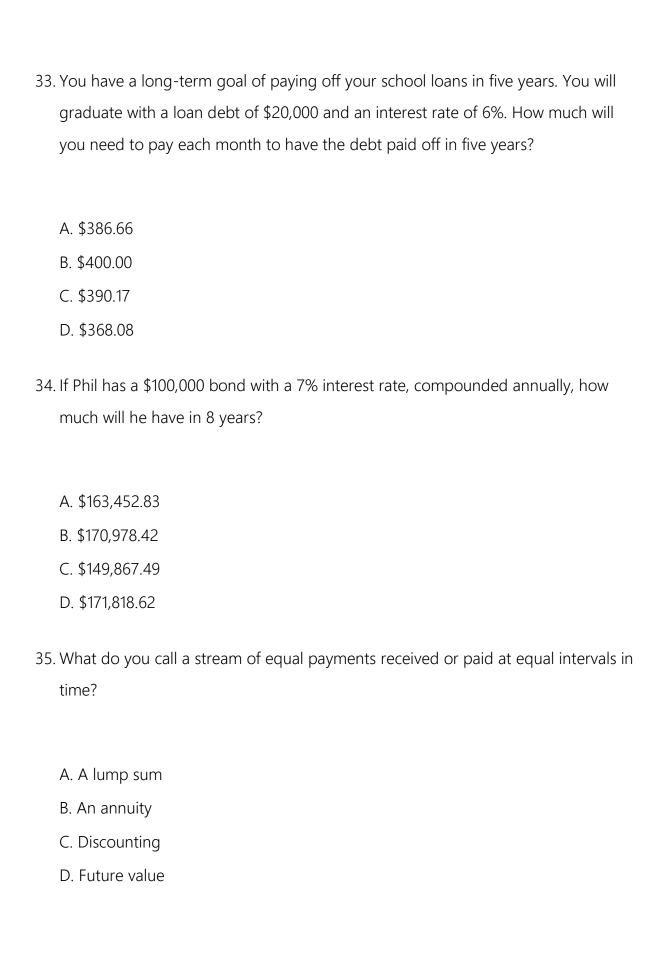
A. Provides formulas so people can calculate the APY on investments
B. Requires that banks must disclose the fees, the APR, and the APY on interest-
bearing accounts
C. Requires that banks must disclose the fees, the APR, and the APY on loans
D. Provides formulas so people can calculate the APY on loans

31. All of the following are related to the time value of money except:

- A. FVIF
- B. PVIFI
- C. PVIF
- D. FVIFA

32. What is a lump sum?

- A. A single, one-time payment
- B. Monthly payments
- C. Yearly payments
- D. Money in your savings account



36. If your parents deposited \$15,000 into an account for you when you were born as
part of a college savings fund and that account is earning 10% annually, how much
will you have in your college savings fund on your 18th birthday?

- A. \$36,099.29
- B. \$83,398.76
- C. \$162,520.59
- D. \$50,795.32
- 37. A stream of equal payments that occurs at the end of a period is called
 - A. An ordinary annuity
 - B. Compounding
 - C. An annuity due
 - D. An end annuity
- 38. An ordinary annuity is a
 - A. Stream of unequal payments that occurs at the end of a period
 - B. Stream of equal payments that occurs at the end of a period
 - C. Stream of equal payments that occurs at the beginning of a period
 - D. Stream of unequal payments that occurs at the beginning of a period

	the
	A. Future value of an amount invested today
	B. Present value of an amount you will receive in the future
	C. Future value of an amount you deposit annually
	D. Present value of an amount if you make annual payments
	E. All of these
40.	. What is the difference between an annuity and an annuity due?
	A. There are no payments in an annuity due.
	B. Payments are at the beginning of the month for an annuity and at the end of the month for an annuity due.
	C. Payments are at the beginning of the month for an annuity due and at the end of the month for an annuity.
	D. There is no difference.
41.	What is a lump sum?
	A. A single, one-time payment
	B. All of your money is put together in a pile
	C. A series of equal payments that are made at equal intervals over time
	D. The value of an amount based on the interest rate

39. Using mathematical formulas, financial tables, or a financial calculator, you can find

42. Which of the following correctly defines future value?
A. The current value of a said future amount based on the interest rate and time in
the account.
B. The value of an amount at a future date based on the interest rate and time in the account.
C. A single, one-time payment.
D. A series of equal payments that are made at equal intervals over time.
43. If you put \$1,000 into an account earning 5% interest annually, how much will you
have in five years?
A. \$5,000.00
B. \$1,276.28
C. \$1,050.50
D. \$1,500.00
44. If you are investing a stream of equal payments that occur at the beginning of
each month, what type of investing is this called?
A. Lump sum
B. Annuity due
C. Discounting
D. Ordinary annuity

45. Calculate the future value when $PV = $1,600$, the interest rate is 8%, and there are 10 periods.
A. \$7,030.26 B. \$3,620.37
C. \$3,370.60 D. \$3,454.28
46. Using the present value long-hand method, how much money would need to be deposited to earn \$5,000 in five years with a 5% interest rate compounded annually?
A. \$3,917.63 B. \$3,917.00 C. \$3,918.63 D. \$3,918.00
True / False Questions
47. The government has an unlimited supply of money.
True False

Each d was pr	dollar bill has a serial number starting with the letter or the district in which it inted.
True	False
	money is backed by the full faith of the U.S. government and the Federal re Bank.
True	False
	ut your \$100 in a savings account and earn 12% APR. At the end of one year, arned \$12.00 in interest. This is an example of simple interest.
True	False
	nnual percentage yield (APY) is the effective monthly rate of return taking count the effect of compounding interest.
True	False
	PY earned on \$10,000 at 12% interest compounded monthly over the course year is the same rate as if compounded daily.
True	False

53. The secret to becoming a millionaire is to pay all your bills on time.
True False
54. The time value of money is most commonly applied to two types of cash flows: lump sum and annuity.
True False
55. You can use the future value interest factor (FVIF) table to calculate the future amount of a lump sum.
True False
56. The process of discounting involves knowing how much money you would have had to deposit yesterday in order to have a specific amount today.
True False
Essay Questions

57. What is the difference between compound interest and simple interest?
58. If you had the choice of choosing \$3,000 now or \$5,000 in five years, which one
would you choose if the APY were 12%?

59	. Christina plans to contribute \$1,200 a year to her niece's college education. Her
	niece will graduate from high school in 10 years. If the interest rate is 6%, how
	much money does Christina need to save for her by the time she graduates from
	high school?

60. If Amelia deposits \$7,000 of her high school graduation gift money into a savings account, how much will she have for graduate school in four years if interest rates are 3%?

Chapter 02 Time Value of Money Answer Key

Multiple Choice Questions

1.	In which city are coins made?
	A. Saint Louis B. Philadelphia C. New York
	D. Washington, D.C.
<i>Lea</i> 2.	AACSB: Analytic Blooms: Remember Difficulty: 1 Easy rning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution. Topic: What Gives Money Value Paper money is produced by the
	 A. Federal Reserve Bank B. United States Treasury C. Bureau of Engraving and Printing D. Fort Knox Mint

Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.

Topic: What Gives Money Value

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3.	\//hat	AIMAC	money	ıtc	Value?
J.	vviiat	GIVC3	THOTICY	113	value:

- A. Supply and demand
- B. Backed by gold
- C. Backed by silver
- D. Present values

AACSB: Analytic Blooms: Remember Difficulty: 1 Easy

Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.

Topic: What Gives Money Value

- 4. What two cities are currently producing coins?
 - A. Denver and Philadelphia
 - B. Philadelphia and San Francisco
 - C. Denver and San Francisco
 - D. Fort Worth and Washington, D.C.

AACSB: Analytic Blooms: Remember

Difficulty: 1 Easy

Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.

5. What is paper money backed by?	
 A. Gold B. Gold and silver C. The full faith and credit of the U.S. government and the Federal Reserve B D. Silver 	ank
AACSB: A Blooms: Rem Difficulty: Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distrib Topic: What Gives Money 6. Which of the following is paper money backed by?	ember 1 Easy bution.
A. The U.S. president <u>B.</u> The full faith and credit of the U.S. government and the Federal Reserve B C. The Federal Reserve Bank D. The Bureau of Engraving and Printing and the Federal Reserve Bank AACSB: A Blooms: Rem.	nalytic
Difficulty:	1 Easy

Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.

7.	Where is one place where paper money is printed?
	A. San Francisco
	B. Washington, D.C.
	C. Denver
	D. Philadelphia
	AACSB: Analytic Blooms: Remembe
	Difficulty: 1 Eas
Lea	arning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution
	Topic: What Gives Money Value
8.	What gives paper currency value?
	A. Having a high supply and high demand
	B. Having a high supply and low demand
	<u>C.</u> Having a limited supply and relatively high demand
	D. Having a low supply and low demand

Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.

AACSB: Analytic Blooms: Remember Difficulty: 1 Easy

9.	Paper money is backed by the credit and faith of the U.S. government and
	·
	A. Wells Fargo
	B. The Federal Union
	C. The USDA
	<u>D.</u> The Federal Reserve
	AACSB: Analytic
	Blooms: Remember
	Difficulty: 1 Easy
Lea	rning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.
	Topic: What Gives Money Value
10.	Currently, which two U.S. cities produce coins for circulation?
	A. New York and Washington, D.C.
	B. Atlanta and Seattle
	<u>C.</u> Philadelphia and Denver
	D. Boston and Houston
	AACSB: Analytic
	Blooms: Remember
	Difficulty: 1 Easy
Lea	rning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.
	Topic: What Gives Money Value

11.	What is the money in the United States backed by?

- A. Gold
- B. Silver
- C. The full faith and credit of the U.S government
- D. The president's oath of office
- E. The Chinese yen

AACSB: Analytic

Blooms: Remember

Difficulty: 1 Easy

Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.

Topic: What Gives Money Value

- 12. Who controls the circulation of money in the United States?
 - A. Coin mints
 - B. The Bureau of Engraving and Printing
 - C. The Federal Reserve
 - D. The president of the United States

AACSB: Analytic Blooms: Remember

Difficulty: 1 Easy

Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.

13.	The	frequently interest is compounded, the		
	the yield.			
	A. More; lowe	r		
	B. More; high	er		
	C. Less; highe	r		
	D. Less; same			
	= , = 555, 555			
		AACSB: Analytic		
		Blooms: Understand		
Learn		Difficulty: 2 Medium		
	ning Objective: 02-02 Di	fferentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.		
		Topic: Power of Compounding		
		, , , , ,		
14.	The process w	The process whereby the value of an investment increases exponentially over		
	time is called t	:he		
		·		
	A. Annual per	centage rate		
	B. Time value			
	C. Annual per	centage yield		
	D. Compound	ina		
	<u>b.</u> compound			
		AACSB: Analytic		
		Blooms: Understand		
		Difficulty: 2 Medium		
Learr	ning Objective: 02-02 Di	fferentiate between simple and compound interest rates and calculate annual percentage yields and		
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15.	What is the	compounding	of interest?

- A. The initial deposit
- B. Money in a savings account
- C. Interest found in a savings account
- D. Interest on interest added to an initial deposit

AACSB: Analytic
Blooms: Understana
Difficulty: 2 Medium
tal percentage yields and

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

16. The annual percentage yield indicates:

- A. How much interest is earned in a year if allowed to compound
- B. the total amount of money invested plus interest
- C. The interest rate
- D. All of these

AACSB: Analytic

Blooms: Understana

Difficulty: 2 Medium

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

- 17. What is compounding?
 - A. Depositing money in the bank
 - <u>B.</u> When interest is added to your initial deposit and you begin to earn interest on interest
 - C. Your initial deposit
 - D. The amount of interest you pay on a loan

AACSB: Analytic Blooms: Understana Difficulty: 2 Medium

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

- 18. If you invest \$100 and receive a 12% APR (annual percentage rate), what will your balance be at the end of the year?
 - A. \$121.12
 - B. \$121.00
 - **C.** \$112.00
 - D. \$100.12

AACSB: Analytic

Blooms: Evaluate

Difficulty: 3 Haro

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and

the value of paying yourself first.

19.	When interest is added to your initial deposit and you begin to earn interest on interest, this is known as				
	A. The annual percentage rate				
	B. The time value of money				
	<u>C.</u> Compounding				
	D. The future value of money				
	AACSB: Analytic				
	Blooms: Understana				
	Difficulty: 2 Medium				
Learn	ing Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and				
	the value of paying yourself first. Topic: Power of Compounding				
	Topic. Fower of Compounding				
20.	If you have \$3,000 today with a 10% APY, how much will you have one year				
	from now?				
	nom now.				
	A. \$3,200				
	<u>B.</u> \$3,300				
	C. \$3,100				
	D. \$3,500				
	AACSB: Analytic				
	Blooms: Apply				
	Difficulty: 3 Haro				
Learn	ing Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and				
	the value of paying yourself first.				
	Topic: Power of Compounding				

- 21. Anna is going to deposit \$500 into an account that has an annual interest rate of 8% compounded quarterly. How much will she have at the end of one year?
 - **A.** \$541.22
 - B. \$537.68
 - C. \$546.93
 - D. \$538.15

AACSB: Analytic Blooms: Apply Difficulty: 3 Haro

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

22. Therese made an investment of \$1,000 into an account that pays a 10% annual interest rate which is compounded quarterly. At the end of the 12-month period, Therese earned \$103.81 in interest on her \$1,000 investment. She calculates her annual percentage yield (APY) to be 10.38%. This is an example of how interest is:

A. Compounded

- B. The same as the annual percentage rate (APR)
- C. Effected by the annual percentage yield (APY)
- D. Part of the Truth in Savings Act

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

- 23. What is $(1 + r/n)^n 1$?
 - A. Future value (FV)
 - B. Annual percentage rate (APR)
 - <u>C.</u> Annual percentage yield (APY)
 - D. Compound percentage interest (CPI)

AACSB: Analytic

Blooms: Apply

Difficulty: 3 Haro

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

- 24. Which best describes compound interest?
 - A. Interest is added to a deposit
 - B. Interest is added to your initial deposit and you earn interest on interest
 - C. You pay double interest
 - D. You pay two separate interest rates

AACSB: Analytic

Blooms: Evaluate

Difficulty: 3 Haro

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

25. What is earning interest on interest?

- A. Compounding
- B. APR (annual percentage rate)
- C. Savings
- D. Investing

AACSB: Analytic Blooms: Remember Difficulty: 1 Easy

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

- 26. Which act helped eliminate investor confusion with compounding interest and the related yields?
 - A. The Truth in Savings Act
 - B. The Compound Interest Act
 - C. The Interest and Yield Act
 - D. The Sarbanes Oxley Act

AACSB: Analytic

Blooms: Remember

Difficulty: 1 Easy

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

- 27. Which is *not* a component of the formula APY = $(1 + r/n)^n 1$?
 - A. N-1 =Compound minus interest rate
 - B. R = Stated annual interest rate
 - C. N = Number of times you'll compound every year
 - D. APY = Annual percentage pate

AACSB: Analytic Blooms: Analyze

Difficulty: 3 Haro

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and

the value of paying yourself first.

Topic: Power of Compounding

28. Which of the following is the correct formula for computing your annual percentage yield?

A. APY =
$$(1 + r/r)^n - 1$$

B.
$$APY = (1 - r/n) - 1$$

C. APY =
$$[(1- r)^n] + 1$$

D.
$$APY = [(r - n)^{r}] - 1$$

AACSB: Analytic

Blooms: Understana

Difficulty: 2 Medium

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

29. Which example indicates discounting?

- A. Looking for less inexpensive options when shopping
- <u>B.</u> Figuring out how much money to invest now to have a certain amount in the future
- C. Shoplifting
- D. All of these

AACSB: Analytic

Blooms: Apply

Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

30. The Truth in Savings Act

- A. Provides formulas so people can calculate the APY on investments
- **<u>B.</u>** Requires that banks must disclose the fees, the APR, and the APY on interest-bearing accounts
- C. Requires that banks must disclose the fees, the APR, and the APY on loans
- D. Provides formulas so people can calculate the APY on loans

AACSB: Analytic

Blooms: Apply

Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to

put aside to meet financial goals.

Topic: The Time Value of Money

	A. FVIF
	B. PVIFI
	C. PVIF
	D. FVIFA
	AACSB: Analytic
	Blooms: Remember
	Difficulty: 1 Easy
Lea	rning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to
	put aside to meet financial goals.
	Topic: The Time Value of Money
32.	What is a lump sum?
	A. A single, one-time payment
	B. Monthly payments
	C. Yearly payments
	D. Money in your savings account
	AACSB: Analytic
	Blooms: Understana
	Difficulty: 2 Medium
Lea	rning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to
	put aside to meet financial goals.
	Topic: The Time Value of Money

All of the following are related to the time value of money except:

31.

- 33. You have a long-term goal of paying off your school loans in five years. You will graduate with a loan debt of \$20,000 and an interest rate of 6%. How much will you need to pay each month to have the debt paid off in five years?
 - **A.** \$386.66
 - B. \$400.00
 - C. \$390.17
 - D. \$368.08

AACSB: Analytic Blooms: Analyze Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

- 34. If Phil has a \$100,000 bond with a 7% interest rate, compounded annually, how much will he have in 8 years?
 - A. \$163,452.83
 - B. \$170,978.42
 - C. \$149,867.49
 - **D.** \$171,818.62

AACSB: Analytic Blooms: Analyze

Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

35.	What do you call a stream of equal payments received or paid at equal intervals in time?
	A. A lump sum
	B. An annuity
	C. Discounting
	D. Future value
<i>Lear</i> 36.	AACSB: Analytic Blooms: Remember Difficulty: 1 Easy ming Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals. Topic: The Time Value of Money If your parents deposited \$15,000 into an account for you when you were born as part of a college savings fund and that account is earning 10% annually, how much will you have in your college savings fund on your 18th birthday?
	A. \$36,099.29
	<u>B.</u> \$83,398.76
	C. \$162,520.59
	D. \$50,795.32
Lea	AACSB: Analytic Blooms: Analyze Difficulty: 3 Haro rning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to

put aside to meet financial goals.

- A. An ordinary annuity
- B. Compounding
- C. An annuity due
- D. An end annuity

AACSB: Analytic Blooms: Understand Difficulty: 2 Medium

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

38. An ordinary annuity is a

- A. Stream of unequal payments that occurs at the end of a period
- **B.** Stream of equal payments that occurs at the end of a period
- C. Stream of equal payments that occurs at the beginning of a period
- D. Stream of unequal payments that occurs at the beginning of a period

AACSB: Analytic Blooms: Remember

Difficulty: 1 Easy

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

- 39. Using mathematical formulas, financial tables, or a financial calculator, you can find the
 - A. Future value of an amount invested today
 - B. Present value of an amount you will receive in the future
 - C. Future value of an amount you deposit annually
 - D. Present value of an amount if you make annual payments
 - E. All of these

AACSB: Analytic

Blooms: Remember

Difficulty: 1 Easy

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

- 40. What is the difference between an annuity and an annuity due?
 - A. There are no payments in an annuity due.
 - B. Payments are at the beginning of the month for an annuity and at the end of the month for an annuity due.
 - <u>C.</u> Payments are at the beginning of the month for an annuity due and at the end of the month for an annuity.
 - D. There is no difference.

AACSB: Analytic Blooms: Understana Difficulty: 2 Medium

41. What is a lump sum?

- A. A single, one-time payment
- B. All of your money is put together in a pile
- C. A series of equal payments that are made at equal intervals over time
- D. The value of an amount based on the interest rate

AACSB: Analytic
Blooms: Understand
Difficulty: 2 Medium

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

- 42. Which of the following correctly defines future value?
 - A. The current value of a said future amount based on the interest rate and time in the account.
 - <u>B.</u> The value of an amount at a future date based on the interest rate and time in the account.
 - C. A single, one-time payment.
 - D. A series of equal payments that are made at equal intervals over time.

AACSB: Analytic Blooms: Understand Difficulty: 2 Medium

43.	If you put \$1,000 into an account earning 5% interest annually, how much will
	you have in five years?

- A. \$5,000.00
- **B.** \$1,276.28
- C. \$1,050.50
- D. \$1,500.00

AACSB: Analytic

Blooms: Apply

Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

- 44. If you are investing a stream of equal payments that occur at the beginning of each month, what type of investing is this called?
 - A. Lump sum
 - <u>B.</u> Annuity due
 - C. Discounting
 - D. Ordinary annuity

AACSB: Analytic Blooms: Understana Difficulty: 2 Medium

- 45. Calculate the future value when PV = \$1,600, the interest rate is 8%, and there are 10 periods.
 - A. \$7,030.26
 - B. \$3,620.37
 - C. \$3,370.60
 - <u>D.</u> \$3,454.28

AACSB: Analytic Blooms: Apply Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

- 46. Using the present value long-hand method, how much money would need to be deposited to earn \$5,000 in five years with a 5% interest rate compounded annually?
 - **A.** \$3,917.63
 - B. \$3,917.00
 - C. \$3,918.63
 - D. \$3,918.00

AACSB: Analytic

Blooms: Apply

Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

True / False Questions

47. The government has an unlimited supply of money.

FALSE

AACSB: Analytic Blooms: Understana Difficulty: 2 Medium

Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.

Topic: What Gives Money Value

48. Each dollar bill has a serial number starting with the letter or the district in which it was printed.

TRUE

AACSB: Analytic

Blooms: Remember

Difficulty: 1 Easy

Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.

Topic: What Gives Money Value

49. Paper money is backed by the full faith of the U.S. government and the Federal Reserve Bank.

TRUE

AACSB: Analytic Blooms: Remember Difficulty: 1 Easy

Learning Objective: 02-01 Explain what gives paper currency value and how the Federal Reserve Bank manages its distribution.

Topic: What Gives Money Value

50. You put your \$100 in a savings account and earn 12% APR. At the end of one year, you earned \$12.00 in interest. This is an example of simple interest.

TRUE

AACSB: Analytic Blooms: Evaluate

Difficulty: 3 Haro

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

51. The annual percentage yield (APY) is the effective monthly rate of return taking into account the effect of compounding interest.

FALSE

AACSB: Analytic

Blooms: Understana

Difficulty: 2 Medium

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and

the value of paying yourself first.

Topic: Power of Compounding

52. The APY earned on \$10,000 at 12% interest compounded monthly over the course of one year is the same rate as if compounded daily.

FALSE

AACSB: Analytic Blooms: Evaluate

Difficulty: 3 Haro

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

53. The secret to becoming a millionaire is to pay all your bills on time.

FALSE

AACSB: Analytic

Blooms: Understana

Difficulty: 2 Medium

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

54. The time value of money is most commonly applied to two types of cash flows: lump sum and annuity.

TRUE

AACSB: Analytic

Blooms: Understana

Difficulty: 2 Medium

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

55. You can use the future value interest factor (FVIF) table to calculate the future amount of a lump sum.

TRUE

AACSB: Analytic Blooms: Understand

Difficulty: 2 Medium

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

56. The process of discounting involves knowing how much money you would have had to deposit yesterday in order to have a specific amount today.

FALSE

AACSB: Analytic

Blooms: Evaluate

Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

Essay Questions

57. What is the difference between compound interest and simple interest?

Compound interest is when you gain interest from the interest that you have already earned. So your deposit just keeps building and you gain interest on top of interest. Simple interest is when you have interest only on the initial deposit. You will have the same amount of interest added each year.

AACSB: Analytic Blooms: Evaluate Difficulty: 3 Haro

Learning Objective: 02-02 Differentiate between simple and compound interest rates and calculate annual percentage yields and the value of paying yourself first.

Topic: Power of Compounding

58. If you had the choice of choosing \$3,000 now or \$5,000 in five years, which one would you choose if the APY were 12%?

Choose the \$3,000 now. $$3,000(1 + .12)^5 = 5,287.03$

AACSB: Analytic Blooms: Evaluate

Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

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59. Christina plans to contribute \$1,200 a year to her niece's college education. Her niece will graduate from high school in 10 years. If the interest rate is 6%, how much money does Christina need to save for her by the time she graduates from high school?

FV = \$1,200(FVIFA 6,10) = 1,200 * 13.181 = 15,817.20

AACSB: Analytic

Blooms: Apply

Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money

60. If Amelia deposits \$7,000 of her high school graduation gift money into a savings account, how much will she have for graduate school in four years if interest rates are 3%?

\$7,878.56

AACSB: Analytic

Blooms: Apply

Difficulty: 3 Haro

Learning Objective: 02-03 Calculate the future and present value of lump sums and annuities in order to know what amount to put aside to meet financial goals.

Topic: The Time Value of Money