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## /test-bank-personal-finance-an-integrated-planning-approach-8e-frasca

Personal Finance: An Integrated Planning Approach, 8e (Frasca) Chapter 2

## The Time Value of Money: All Dollars Are Not Created Equal

1)
Compounding refers to the A)
mistake of confusing present values with future values.  B)
process of accumulating value over time.  C)
task of finding a present value.  D)
projection of future payments.  Answer:
B  Diff: 1 Topic:
Interest compounding
2)
Assuming positive interest rates, a present value of \$1,000 A)
is always more desirable to a future value of \$1,000.  B)
is always less desirable than a future value of \$1,000.
is no more or no less desirable than a future value of \$1,000.
You can't answer without more information.  Answer:
A  Diff: 1  Topic:
Interest compounding

Given recent market experience a dollar today is worth A)
more than a dollar five years from now. B)
less than a dollar five years from now.  C)
about the same as a dollar five years from now.  D)
more or less than a dollar five years from now.  Answer:
A
Diff: 1 Topic:
Economic trends
4)
You have just put \$1,000 in an investment that offers a 12% annual yield, using a <u>simple interest</u> calculation. At the end of <u>two</u> years your interest earned will be  A)
\$120.00. B)
\$144.00. C)
\$240.00. D)
\$254.40. Answer:
С
Diff: 1 Topic:
Interest compounding
5)

You have just put \$500 in an investment that offers an 8% annual yield, with interest compounded annually. Your total interest earned after two years will be

A)

\$83.20.

B)

\$80.00.

C)

\$44.60.

D)

\$40.00.

Answer:

A

Diff: 2 Topic:

Interest compounding

1	1
h	١

At 12% i	nterest (compounded annually), \$20,000 invested today will grow to \$ A)	in three years
27,200	В)	
28,099	C)	
31,471	D)	
40,000	Answer:	
В	Diff: 1 Topic:	
Future val	ие	
7		
	e just put \$5,000 into an investment that offers a 10% annual yield, using a $\underline{s}$ on. At the end of two years your interest earned will be A)	imple interest
\$500.	B)	
\$550.	C)	
\$1,000.	D)	
\$1,100.	Answer:	
С	Diff: 2 Topic:	
Interest co	npounding	
8		

You have just put \$5,000 into an investment that offers a 10% annual yield, with interest compounded annually. Your total interest earned after two years will be

A)

\$550.	B)
\$1,000.	C)
\$1,050.	D)
\$1,100.	Answer:
С	Diff: 2 Topic:
Interest con	npounding
9)	
it shows t	discusses the topic of compounding over a large number of compounding periods. To illustrate, that \$1,000 invested at 8% for 40 years (annual compounding) grows to \$21,724. But if you could instead of 8%, you would earn more at the end of 40 years.  A)
\$4,431	В)
25 percen	at C)
\$23,535	D)
\$1,250	Answer:
С	Diff: 3 Topic:
Interest con	npounding
10)	
The futur	re value of \$12,000 invested today at 6% interest compounded annually for 4 years is A)
\$23,259.	B)
\$15,150.	

\$12,190.

D)

\$9,505.

Answer:

В

Diff: 1 Topic:

Future value

The futur	e value of \$5,000 invested today at 3% interest compounded annually for 5 years is A)
\$5,255.	B)
\$5,520.	C)
\$5,628.	D)
\$5,796.	Answer:
D	Diff: 3 Topic:
Future valı	ne e
12)	
_	ct a 3% rate of inflation to continue indefinitely into the future. A \$10,000 vacation today will twenty years from now. (Table or calculator required.)  A)
10,300	B)
14,988	C)
18,061	D)
42,944	Answer:
С	Diff: 3 Topic:
Future valu	ie – – – – – – – – – – – – – – – – – – –
13)	
You are d	leciding whether to start a 40-year retirement investing plan now, or ten years from now. You

A)

decision shows

think rates of return will be about the same in the future as they are now. Discussion in the text of this

very little	difference in the future value of an investment made now versus one made 10 years from now.  B)
	nent made now will accumulate about 20% more (at a 10% rate of interest, compounded than the investment made later.  C)
the same f	facts as in response b, but the accumulation is only 10% greater.  D)
•	vill accumulate more in the additional 10 years than you do for the first 30 years. Answer:
D	
	Diff: 2 Topic:
Interest com	pounding
14)	
With an ir	nterest rate of 9%, \$5,000 will grow to \$10,000 in approximately  A)
8 years.	B)
4 years.	C)
12 years.	D)
24 years.	Answer:
	Diff: 1 Topic:
Rule of 72	
15)	
If you wis	h to double your money in 6 years, you must earn an interest rate of about A)
8%.	B)
24%.	C)

12%. D)

36%. Answer:

C Diff: 1 Topic:

Rule of 72

B)

At an interest rate of 10% it will take approximately how many years to double your investment? A) $ \qquad \qquad \text{A}) $
Less than five years B)
Between 7 and 8 years C)
Between 9 and 10 years D)
More than 10 years Answer:
B  Diff: 1 Topic:
Rule of 72
17)
An annuity is A)
a sum received in the future. B)
a sum earned in the future but received now.  C)
a series of unequal payments.  D)
a series of equal payments.  Answer:
D  Diff: 1  Topic:
Annuities
18)
In relation to an ordinary annuity paid in any given year, an annuity due is A)
a larger amount.

a smaller	amount. C)	
an equal a	amount. D)	
an unrela	ted amount. Answer:	
A	Diff: 1 Topic:	
Annuities		
19)		
	e value of a \$500 ordinary annuity received for three years is \$ nt rate of 10%: A)	, assuming an
1,655.00	В)	
665.50	C)	
1,820.50	D)	
335.65	Answer:	
A	Diff: 3 Topic:	
Annuities		
20)		
	e value of a \$500 annuity due received for three years is \$	assuming an investment rate
of 10%.	A)	
1,655.00	B)	
665.50	C)	
1,820.50	D)	

335.65

Answer:

C

Diff: 3 Topic:

Annuities

		790 in 28 years to supplement your retirement funds. If you can earn 8% interest, yo _ each year. (Table or calculator required.)	u
must sav	Α)	_ each year. (Table of Calculator required.)	
	,		
8,100			
	B)		
<i>(</i> 200			
6,300	C)		
	C)		
3,600			
	D)		
2 400			
2,400	Answer:		
	Allswei.		
D			
	Diff: 3		
	Topic:		
Future valı	ue		
22)	)		
An ordin	ary annuity	y assumesof-period payments, while an annuity due assumeso	ıf-
period pa		y assumes or period payments, write an armany due assumes o	1
1 1	A)		
end; begi	-		
	B)		
beginning	g: end		
	C)		
end; mid			
	D)		
heginning	g; middle		
cegnum	Answer:		
A			
	Diff: 2 Topic:		
	Topic.		
Annuities			
22)	<b>\</b>		
23)	)		
Assumin	g a discour	nt rate of 10%, the present value of \$1,000 received one year from now is	
	A)		

\$1,100.00.	B)
\$1,900.00.	C)
\$909.09.	D)
\$990.00.	Answer:
С	Diff: 3 Topic:
Present val	ие
24)	
Assuming	g a discount rate of 10%, the present value of \$1,000 received two years from now is A)
\$800.00.	B)
\$826.45.	C)
\$899.90	D)
\$900.00	
	Answer:
В	Diff: 3 Topic:
Present val	ие
25)	
	buy a lottery ticket. If you win, you have a choice of receiving \$995,000 now or three equal endayments of \$400,000. You should <i>take</i> the payments  A)
because \$	1,200,000 is greater than \$995,000. B)
if you ear	n 20% or more on your investments. C)

if you earn 11% or more on your investments. D)

 $\label{eq:constraint} \mbox{if you earn less than 10\% on your investments.} \\ \mbox{Answer:}$ 

D

Diff: 3 Topic:

Present value

short-term goals.

An annuity contract will pay you \$4,000 a year (end of year) for the next three years. Or, you can choose to receive \$12,610 at the end of the third. Assuming that you can earn 8% on investments, you should A) choose to receive the \$4,000 annuity payments. choose to receive the \$12,610 payment. flip a coin to make the choice; each is equally attractive. flip a coin to make the choice; each is equally unattractive. Answer: A Diff: 3 Topic: Annuities 27) Which item below is **not** associated with goal planning? A) Constructing a budget B) Adjusting for inflation C) Making goals concrete D) Determining a savings schedule Answer: Α Diff: 1 Topic: Planning 28) Generally speaking, planners can usually seek higher return investments to meet

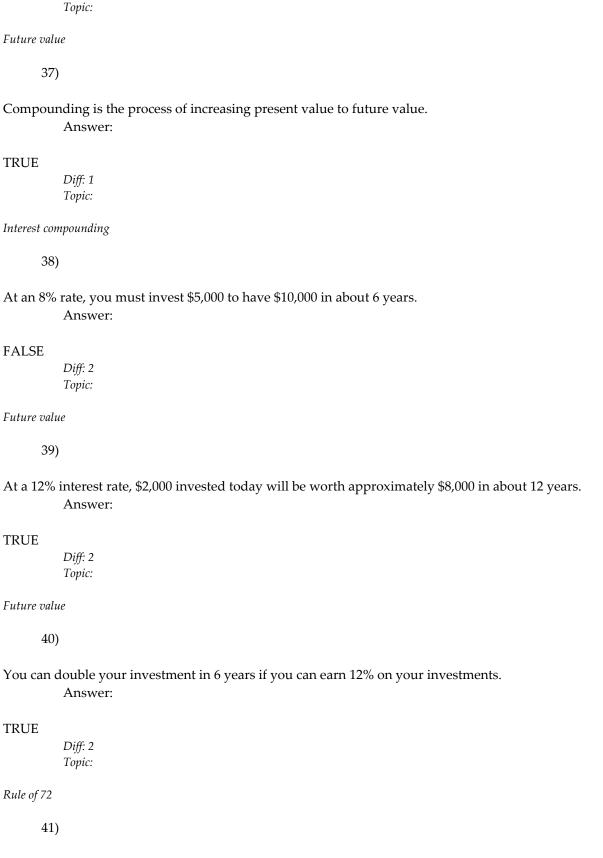
B) long-term goals. C) goals of any term. D) dreams, but not goals. Answer: В Diff: 2 Topic: Planning 29) A savings schedule with a zero ending balance means that annual deposits are sufficient to meet all goals. more savings are needed each year. C) the most desirable schedule has been determined. some goals will not be achieved. Answer: A Diff: 2 Topic: Planning 30) Young people most likely prefer a savings schedule with A) a zero ending balance. B) increasing annual deposits. C) decreasing annual deposits.

D)

negative balance	res in the early years.
Answ	ver:
В	
Diff: 2	
Topic:	
Planning	
31)	
Compounding	is the process of increasing present value to future values
Answ	<i>r</i> er:
TRUE	
Diff: 1	
Topic:	

Interest compounding

	ng is the process of reducing future values to present values. Answer:
	Diff: 1 Topic:
Present valu	ue
33)	
interest ra	nt value of \$500 received at the end of each of the next three years is \$1,243 (assuming a 10% te).  Answer:
	Diff: 2 Topic:
Present valu	ne e
34)	
compound	t \$100 today in a two-year certificate of deposit that pays a 10% annual interest rate ded annually. At maturity, your CD will give you \$120.  Answer:
	Diff: 1 Topic:
Interest com	pounding
35)	
•	interest calculation assumes you reinvest all interest earned in the investment. Answer:
	Diff: 1 Topic:
Interest com	pounding
36)	
dollar inv	t a future value of \$1 table, you find the number 4.661 for 20 years and 8%. This means that a ested today will grow to \$4.661 at the end of 20 years.  Answer:
TRUE	Diff: 1



John cashed in an annuity contract and received \$10,000. John bought the contract 24 years ago for \$5,000. These amounts indicate a contract rate of approximately 3%.

Answer:

TRUE	Diff: 3 Topic:
Interest com	
Interest con	npounuing
42)	
The futur interest ra	e value of \$500 invested at the end of each of the next three years is \$1,555 (assuming a 10% ate).  Answer:
FALSE	Diff: 2 Topic:
Future valu	ie
43)	
Given ide	entical data, the future value of an ordinary annuity is greater than the future value of an lue. Answer:
FALSE	Diff: 1 Topic:
Annuities	
44)	
If the futu 10% inter	are value of an ordinary annuity is \$8,000, the future value of an annuity due is \$7,200 given a est rate.  Answer:
FALSE	Diff: 2 Topic:
Annuities	
45)	
\$500 inve	sted at 8% at the beginning of each of the next four years will grow to approximately \$2,433. Answer:
TRUE	Diff: 2 Topic:
Future valu	ue e
46)	

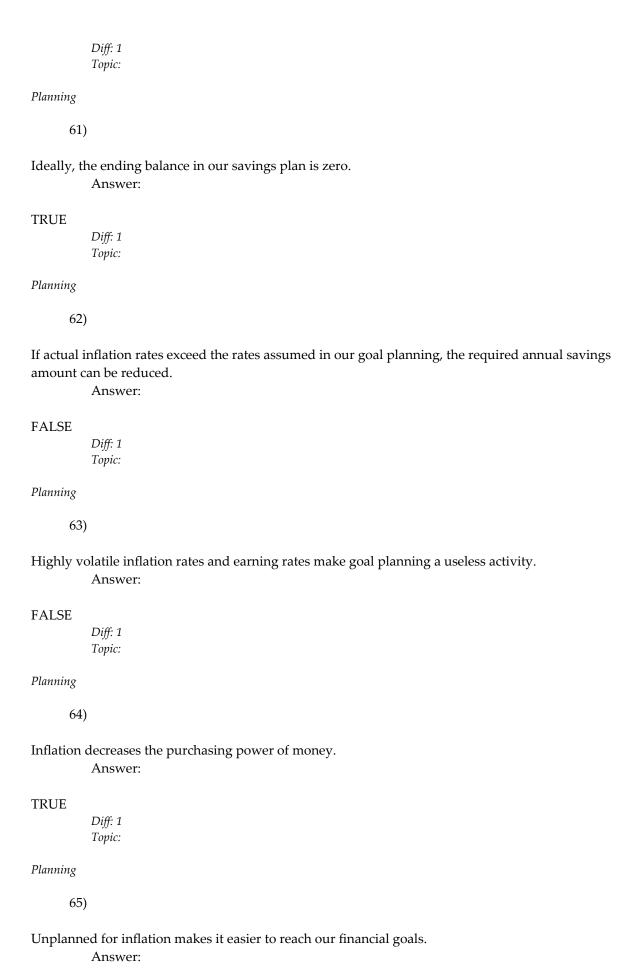
Given identical data, the future value of annuity due is always greater than the future value of an ordinary annuity.  Answer:		
TRUE	Diff: 1 Topic:	
Annuities		
47)		
At any po	ositive rate of interest, a future value will be greater than a present value. Answer:	
TRUE	Diff: 1 Topic:	
Interest con	npounding	
48)		
With a 10% interest rate, the present value of \$100 received one year from today is \$90.91. Answer:		
TRUE	Diff: 1 Topic:	
Present val	ие	
49)		
Discounting is the process of reducing future values to present values.  Answer:		
TRUE	Diff: 1 Topic:	
Present value		
50)		
The higher the interest (discount) rate, the greater the present value of a future payment.  Answer:		
FALSE		
	Diff: 1 Topic:	
Present val	ие	

Discount	ing is the reverse process of compounding. Answer:
TRUE	Diff: 1 Topic:
Future valı	ue
52)	
Discount	ing is the process of reducing future values to present values.  Answer:
TRUE	Diff: 1 Topic:
Interest con	npounding
53)	
The first s	step in goal planning is setting up a budget. Answer:
FALSE	Diff: 1 Topic:
Planning	
54)	
An impor	rtant part of goal planning is adjusting present values for expected inflation. Answer:
TRUE	Diff: 1 Topic:
Planning	
55)	
Making g	goals concrete begins by determining their costs if they were undertaken today. Answer:
TRUE	Diff: 1 Topic:
Planning	

Most you	ing people prefer a savings schedule with decreasing annual deposits to the savings account.  Answer:
FALSE	Diff: 1 Topic:
Planning	
57)	
Years wit	th negative balances in the savings schedule implies that loans would be needed to achieve the Answer:
TRUE	Diff: 1 Topic:
Planning	
58)	
	earn 10%. If you hope to accumulate \$20,000 in 4 years, you must make annual investments (end ) of \$3,918. Answer:
FALSE	Diff: 3 Topic:
Future valı	ue
59)	
-	lanning, you generally match the savings vehicle to the time when the money is needed; for short-range goals are funded with low-risk investments.  Answer:
TRUE	Diff: 1 Topic:
Planning	
60)	
	al required savings amount confirms our computational accuracy but does not necessarily imply savings plan will use that amount <i>each</i> year.

TRUE

Answer:



## FALSE Diff: 1 Topic: Planning 66) Generally, you can invest in higher-return assets for goals that are further out in the future. Answer: TRUE Diff: 1 Topic:

Planning