Math 100

Practice Test #2

Spring 2024

Name			
MULTIPLE CHOICE. Choo	se the one alternative that best	completes the statemen	t or answers the question.
1) George invested \$75	500 for 3 years at a simple intere	est rate of 8%. How much	interest did he earn?
A)\$2000	B)\$3500	C)\$1800	D)\$4500
2) Jane borrows \$2500	for 2 years at a simple interest r	rate of 12%. What is the t	otal amount that must be repaid?
A) \$5600	B) \$6000	C)\$3100	D)\$4500
What is the amount will be paid for the		loan for 5 years at 12% s	imple interest? How much interest
A) 60065	11 62070 (11111)	0) 611 600	
•	epaid, \$3250 of it is interest. repaid, \$4265 of it is interest.		be repaid, \$4320 of it is interest. De repaid, \$4539 of it is interest.

4)	How many years will i	t take for \$5000 to grov	v to \$6500 if	the simple interest rate is	given a 3.2%?
	A) About 9 years	B) About 12 yea	nrs	C) About 8 years	D) About 15 years
5)	Find the future amoun	t on deposit when \$440	00 is deposite	ed for 10 years at 6% com	pounded semiannually.
	Λ)\$5889.10	B)\$6100.47	C)\$8810.4	5 D) \$7946.89	E)\$6574.50
6)	Find the total amount of	on deposit when \$9000	is deposited	l for 16 years at 10% comp	ounded annually.
	A)\$52,695	B) \$45, 872		C)\$23,560	D)\$41,355
7)	Find the total amount of	on deposit when \$2500	is deposited	l for 6 years at 16‰ compo	ounded quarterly.
	A)\$4900	B) \$6408.26	C) \$6090	D) \$3590	E)\$3907.50
8)				ghteenth birthday. How r \$9000 if his oldest niece i	nuch will the uncle have to s having her tenth
	A) \$6432.15	B)\$4122.77		C)\$3567.12	D) \$5256.46

9) What is the effective rate gi	ven a nominal interest	rate of 12% compou	inded monthly?		
	A) 12.7% B)\$	60 C)	12.5%	D) 12.2%	E) 12%	
10	With all things being equal, bearing account?	what is the most impo	ortant variable in de	termining a deci	sion on an interest	
	A) The number of years mo	ney is in an account				
	B) The interest rate					
	C) The number of compour	ids per year				
11)	Which loan for a given amou	int produces a lower r	monthly payment, a	20-year loan at 1	0% or a 30-year loan at	
	A) Not enough information	given				
	B) The 20-year loan					
	C) The 30-year loan					
12)	Which loan for a given amou loan?	ant of money produces	the higher amount	of interest and to	otal amount paid on a	
	10-year loan at 9%					
	Of 20 year lann at 9072					
	20-year loan at 8%?					
	A) The 10- year loan					
	B) Not enough information	givon				
	C) The 20-year loan	given				
12)	The Smith family assumed a	¢120,000 (20 .00			
13)	The Smith family assumed a	\$120,000 mortgage to	r 30 years at 8%. Wh	at is their month	ly payment?	
	A)\$932.56	B) \$880.80	C) \$569,24		D)\$523.32	
14)	14) In the problem 13, how much interest is paid on the 30 year loan?					
	A)\$317,088	B) \$197,088	C) \$38,544		D)\$158,544	
15)	Which of the following loan's interest.	s monthly payment wo	ould pay more off (ir	nitially) from the	principal versus the	
	A) A 7 year loan	B) A 20 year loan	C) A 15 year	loan	D) A 30 year loan	

16) A monthy payment on a 15 year, \$250,000 loan, at 5% annual interest is \$1342.05. How much money of the first month's payment goes towards the principal?

A)\$672.54

B) \$300.38

C)\$1041.67

D) \$1342.05

Answer questions 17-22 from the given credit history for the month of July.

Bob has made the following table to compute the finance charge for his March credit card bill. Bob paid off all outstanding debts from his February purchases.

Date	Purchase	Balance	Number of Days	Total
March 15-19	\$201	\$201	5	ίΧι
March 20-26	\$17.44	\$217.44	"Y"	\$1522.08
March 27-April 5	\$17.33	ʻZ'	10	\$2347.70
April 6-April 14	\$19.99	\$254.76	9	\$2292.84

- 17. What is the 'X' value in the above table?
 - a. \$201.00
 - b. \$150.00
 - c. \$1005.00
 - d. \$1067.00
- 18. What is the 'Y' value in the above table?
 - a. 6
 - b. 7
 - c. 5
 - d. 8
- 19. What is the value of 'Z' in the above table?
 - a. \$214.77
 - b. \$17.44
 - c. \$217.44
 - d. \$234.77
- 20. What is the average daily balance for the account for the billing period?
 - a. \$231.21
 - b. \$7167.62
 - c. \$31
 - d. \$414.87

- 21. If the APR is 24%, what would the finance charges be on the account if not paid in full for the month of March purchases?

 a. \$8.30
 b. \$18.30
 c. \$254.76
 d. \$4.62
- 22. To avoid finance charges for the month of March, how much should Bob pay at the end of the billing period to his credit card company?
 - a. \$18.30
 - b. \$8.30
 - c. \$4.62
 - d. \$254.76
- 23. If a couple has a monthly payment of \$874.66 on a \$110,000, 15 year loan, how much interest do they owe on the loan at the end of the 15 years?
 - a. \$157,438.80
 - b. \$110,000.00
 - c. \$47,438.80
 - d. \$874.66
- 24. Which of the following home mortgage loans would you choose if you wanted a higher monthly payment so you would not pay as much in interest over the life of the loan to a bank?
 - a. a 25 year mortgage
 - b. a 30 year mortgage
 - c. a 20 year mortgage
 - d. a 15 year mortgage
- 25. What is the simple interest rate be for an account to grow from \$3500 to \$4300 if the interest rate in 4 years?
 - a. 1.4%
 - b. 5.7%
 - c. 6.4%
 - d. 3.9%