

- 1) Find the simple interest to \$5130 at 4% for 10 months 1) \_\_\_\_\_  
A) \$188.10 B) \$153.90 C) \$171.00 D) \$172.44
- 2) Find the simple interest to \$22,000 at 4% for 111 days 2) \_\_\_\_\_  
A) \$880.00 B) \$268.89 C) \$22,271.33 D) \$271.33
- 3) What is the purchase price of a 26-week T-bill with a maturity value of \$1000 that earns an annual interest rate of 5.25%. Use 360 days. 3) \_\_\_\_\_  
A) \$1000 B) \$25.58 C) \$974.42 D) \$1025.58
- 4) The principal \$15,400 is accumulated with simple interest of 16% for 5 years. Find the amount that will be accumulated in the account under the given conditions. 4) \_\_\_\_\_  
A) \$27,720 B) \$20,212.50 C) \$12,320 D) \$15,892.80
- 5) Samantha's savings account has a balance of \$4643. After 25 years, what will the amount of interest be at 6% compounded annually? 5) \_\_\_\_\_  
A) \$15,284.16 B) \$15,275.16 C) \$15,289.16 D) \$2785.80
- 6) Find the compound interest earned \$700 at 8% compounded semiannually for 4 years 6) \_\_\_\_\_  
A) \$118.90 B) \$595.65 C) \$258.00 D) \$252.34
- 7) Brandon's savings account has a balance of \$4069. After 4 years what will the amount of interest be at 5% compounded quarterly? 7) \_\_\_\_\_  
A) \$894.73 B) \$885.73 C) \$899.73 D) \$101.73
- 8) How long will it take for \$4900 to grow to \$8000 at an interest rate of 1.9% if the interest is compounded continuously? Round the number of years to the nearest hundredth. 8) \_\_\_\_\_  
A) 0.26 yr B) 25.8 yr C) 2.58 yr D) 2580.03 yr

- 9) Jennifer invested \$4000 in her savings account for 4 years. When she withdrew it, she had \$4350.52. Interest was compounded continuously. What was the interest rate on the account? Round to the nearest tenth of a percent. 9) \_\_\_\_\_
- A) 2.2%                      B) 2.1%                      C) 2%                      D) 2.25%
- 10) Larry wants to start an IRA that will have \$420,000 in it when he retires in 29 years. How much should he invest semiannually in his IRA to do this if the interest is 6% compounded semiannually? 10) \_\_\_\_\_
- A) \$2354.65                      B) \$9288.16                      C) \$2754.16                      D) \$2767.16
- 11) Cara needs \$9,000 in 10 years. What amount can she deposit at the end of each quarter at 10% interest compounded quarterly so she will have her \$9,000? 11) \_\_\_\_\_
- A) \$138.93                      B) \$133.53                      C) \$128.41                      D) \$564.71
- 12) If Jay bought a lot for \$8,000 and sold it 10 years later for \$24,000, what was her percentage rate of return on this investment if it was compounded annually? 12) \_\_\_\_\_
- A) 11.2934%                      B) 200%                      C) 300%                      D) 11.6123%
- 13) Find the rate of interest required to achieve the condition 13) \_\_\_\_\_
- A = \$32,000  
P = \$8,000  
t = 10 years  
compounded quarterly
- A) 14.1060%                      B) 14.8698%                      C) 14.3547%                      D) 30%
- 14) Sammy borrowed \$10,000 to purchase a new car at an annual interest rate of 11%. She is to pay it back in equal monthly payments over a 5-year period. How much total interest will be paid over the period of the loan? Round to the nearest dollar. 14) \_\_\_\_\_
- A) \$1435                      B) \$3630                      C) \$92                      D) \$3045
- 15) Find the amount that should be invested now to accumulate the following amount \$15,500 at 4% compounded annually for 4 years 15) \_\_\_\_\_
- A) \$13,249.46                      B) \$18,132.81                      C) \$13,779.44                      D) \$2250.54

- 16) The monthly payments on a \$79,000 loan at 14% annual interest are \$982.76. How much of the first monthly payment will go toward interest? 16) \_\_\_\_\_  
 A) \$845.17                      B) \$1106.00                      C) \$921.67                      D) \$137.59
- 17) Find the effective rate corresponding to the given nominal rate. 15% compounded semiannually. Round results to the nearest 0.01 percentage points. 17) \_\_\_\_\_  
 A) 15.87%                      B) 15.00%                      C) 16.08%                      D) 15.56%
- 18) If inflation is 8% a year compounded annually, what will it cost in 9 years to buy a house currently valued at \$74,000? 18) \_\_\_\_\_  
 A) \$105,325.07                      B) \$136,968.84                      C) \$147,926.34                      D) \$159,760.45
- 19) A small company borrows \$37,000 at 6% compounded monthly. The loan is due in 9 years. How much interest will the company pay? 19) \_\_\_\_\_  
 A) \$26,091.42                      B) \$26,238.16                      C) \$26,406.88                      D) \$63,406.88
- 20) Andrea Gilford's savings account has a balance of \$2114. After 2 years, what will the amount of interest be at 5% compounded quarterly? 20) \_\_\_\_\_  
 A) \$220.88                      B) \$52.85                      C) \$211.88                      D) \$225.88
- 21) A municipal bond with a face value of \$5000 in ten years can be purchased now for \$2875. Find the simple interest rate. Round to the nearest tenth of a percent. 21) \_\_\_\_\_  
 A) 5.9%                      B) 5.4%                      C) 5.7%                      D) 5.5%
- 22) You have money in an account at 4% interest, compounded monthly. To the nearest year, how long will it take for your money to triple? 22) \_\_\_\_\_  
 A) 22 years                      B) 17 years                      C) 28 years                      D) 39 years
- 23) Barbara knows that she will need to buy a new car in 3 years. The car will cost \$15,000 by then. How much should she invest now at 6%, compounded quarterly, so that she will have enough to buy a new car? 23) \_\_\_\_\_  
 A) \$11,881.40                      B) \$13,727.12                      C) \$13,349.95                      D) \$12,545.81

- 24) Find the periodic payment that will render the sum  $S = \$18,000$ , interest is 8% compounded annually, payments made at the end of each year for 12 years 24) \_\_\_\_\_  
 A) \$1081.37                      B) \$1463.45                      C) \$948.51                      D) \$1692.27
- 25) If Bob deposits \$5000 at the end of each year for 5 years in an account paying 10% interest compounded annually, find the amount he will have on deposit. 25) \_\_\_\_\_  
 A) \$38,578.05                      B) \$23,205.00                      C) \$25,525.50                      D) \$30,525.50
- 26) Which of the following investments is larger after 27 years? 26) \_\_\_\_\_  
 A) \$600 is deposited monthly and earns 9% interest compounded monthly.  
 B) \$7500 is deposited annually and earns 9% interest compounded annually.
- 27) Larry wants to start an IRA that will have \$850,000 in it when he retires in 25 years. How much should he invest semiannually in his IRA to do this if the interest is 8% compounded semiannually? 27) \_\_\_\_\_  
 A) \$20,410.17                      B) \$5554.67                      C) \$5373.46                      D) \$5567.67
- 28) Mark wants to start an IRA that will have \$250,000 in it when he retires in 19 years. How much should he invest quarterly in his IRA to do this if the interest is 6% compounded quarterly? 28) \_\_\_\_\_  
 A) \$5936.00                      B) \$2058.02                      C) \$1785.37                      D) \$1330.48
- 29) Find the present value of the ordinary annuity. 29) \_\_\_\_\_  
 Payments of \$54 made quarterly for 10 years at 8% compounded quarterly  
 A) \$1452.74                      B) \$1477.20                      C) \$530.18                      D) \$1486.92
- 30) Tasha borrowed \$15,000 to purchase a new car at an annual interest rate of 9.5%. She is to pay it back in equal monthly payments over a 3 year period. How much total interest will be paid over the period of the loan? Round to the nearest dollar. 30) \_\_\_\_\_  
 A) \$1643                      B) \$3760                      C) \$2298                      D) \$119

- 31) You want to take out a loan to buy a new car for which you need to finance \$27,504. Your bank will give you a loan at 8% compounded monthly. You look at your budget and decide that you can afford a payment of \$282 a month. How many years, to the nearest tenth of a year, must the loan be taken out to meet these conditions? 31) \_\_\_\_\_
- A) 7.9 years      B) 27.7 years      C) 18.4 years      D) 13.2 years

- 32) Mary finances \$150,000 towards the purchase of a new home through a 20-year mortgage. The interest rate applied to the monthly unpaid balance is 5.2% 32) \_\_\_\_\_
- Prepare an amortization schedule showing the first four payments for the loan.*

Payment Number	Amount of Payment	Interest for Period	Portion to Principal	Principal at End of Period
1				
2				
3				
4				

- 33) Mary finances \$150,000 towards the purchase of a new home through a 20-year mortgage. The interest rate applied to the monthly unpaid balance is 7% 33) \_\_\_\_\_
- Prepare an amortization schedule showing the first four payments for the loan.*

Payment Number	Amount of Payment	Interest for Period	Portion to Principal	Principal at End of Period
1				
2				
3				
4				

## Answer Key

Testname: FINITE\_PRACTICE-2

- 1) C
- 2) D
- 3) C
- 4) A
- 5) A
- 6) C
- 7) A
- 8) B
- 9) B
- 10) D
- 11) B
- 12) D
- 13) A
- 14) D
- 15) A
- 16) C
- 17) D
- 18) C
- 19) C
- 20) A
- 21) C
- 22) C
- 23) D
- 24) C
- 25) D
- 26) A
- 27) D
- 28) C
- 29) B
- 30) C
- 31) D

# Answer Key

Testname: FINITE\_PRACTICE-2

32)

Payment Number	Amount of Payment	Interest for Period	Portion to Principal	Principal at End of Period
1	1006.58	650.00	356.58	149,643.42
2	1006.58	648.45	358.13	149,285.29
3	1006.58	646.90	359.68	148,925.61
4	1006.58	645.34	361.24	148,564.37

33)

Payment Number	Amount of Payment	Interest for Period	Portion to Principal	Principal at End of Period
1	1162.95	875.00	287.95	149,712.05
2	1162.95	873.32	289.63	149,422.42
3	1162.95	871.63	291.32	149,131.10
4	1162.95	869.93	293.02	148,838.08