Name:	 	
Teacher:	 	
Class/ Block:		
Date:		

Unit 6: To buy or to lease?

Please answer each question. Cleary identify your final answer!!

No work or explanation = No Credit

Christina is buying a new Dodge charger for \$23,599.

- 1. What is the initial price of the car if she puts \$4,000 down and an interest rate of 4.12% for four years? 23.599 4000 = 919,599
- 2. What is the future value of the loan? $FV = 19,599 \left(1 + \frac{0412}{12}\right)^{12.4} = 19,599 \left(1 + .003433333\right)^{48} = {}^{\$}23,103.78$
- 3. How much interest will she owe for the loan? \$23,103.78-19,599=\$3,504.78
- 4. What is the monthly payments? 23.103.78/48 = 481.33 per month
- 5. Given the sell back price of the car is \$12,399, what is the total cost of the car? 4,000 + 23,103.78 12,399 = 14,704.78

Another option she has is a lease where the monthly payment is \$375 for 4 years and she must make a one-time balloon payment of \$1,500 when she trades the car in.

6. What is the total cost of the car?

7. What would the total cost of the car be if she paid \$350 for 5 years and the balloon payment was \$2,150?

$$350\times60 = 21,000 + 2,150 = 23,150$$

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Christina decided to keep looking around and found a dealership across town that has a new Ford Focus (trying to save money) for \$19,100.

- 8. What is the initial price of the car if she puts 2.5% down and an interest rate of 3.99% for four years? $19,100 \times .025 = $477.50 = 19,00-477.50 = 18,682.50$
- 9. What is the future value of the loan? $FV = 19,622.50(1.003325)^{48} = 18,622.50(1.003325)^{48} = 18,622.50(1.172731041) = 21,839.18$
- 10. How much interest will she owe for the loan?

11. What is the monthly payments?

12. Given the sell back price of the car is \$11,200, what is the total cost of the car? 477.50 + 21,8391.18 = 22,316.68 - 11,200 = 11,116.68

Another option she has is a lease where the monthly payment is \$412 for 3 years and she must make a one-time balloon payment of \$1,800 when she trades the car in.

13. What is the total cost of the car?
$$412 \times 36 = 14,832 + 1,800 = 16,632$$

14. What would the total cost of the car be if she paid \$389 for 4 years and the balloon payment was \$1,570? $389 \times 48 = 18,672 + 1,570 = 20,342$