PRACTICE: LESSON 11.1 – SIMPLE & COMPOUND INTEREST

Name: _____

Learning Goal: I can use formulas to calculate simple interest	Language Goal: I can discuss with a partner how to use the
and compound interest of different investments and loans.	formulas for simple interest and compound interest and then
Meta de Aprendizaje: Puedo usar fórmulas para calcular el	write an explanation.
interés simple y el interés compuesto de diferentes inversiones	Lenguaje Objetivo: Puedo discutir con un compañero cómo
y préstamos.	usar las fórmulas de interés simple y interés compuesto y
	luego escribir una explicación.

Directions: Calculate the Account Total and the Interest for each problem.

 A savings account earns simple interest at a rate of 2.5%. The account currently has \$5,000. How much <i>interest</i> will be earned after 10 years? How much <i>total</i> money will be in the account after 10 years? 	2. A savings account earns compound interest at a rate of 2.5%. The account currently has \$5,000. How much total money will be in the account after 10 years? How much interest will be earned after 10 years?
ANSWERS	ANSWERS
Interest Earned:	Account Total:
Account Total:	Interest Earned:
3. A savings account earns simple interest at a rate of 7.25%. The account currently has \$10,000. How much <i>interest</i> will be earned after 3 years? How much <i>total</i> money will be in the account after 3 years?	4. A savings account earns compound interest at a rate of 7.25%. The account currently has \$10,000. How much total money will be in the account after 3 years? How much interest will be earned after 3 years?
ANSWERS	ANSWERS
Interest Earned:	Account Total:
Account Total:	Interest Earned:

5. Compare your answers from 1 through 4. Which type of interest rate earns more money, **simple interest** or **compound interest**?

Answer: _____

6. How do you convert a percent to a decimal?

7.	You want to buy a \$5,000 car. You can get a 5-
	year loan at 9% simple interest. How much total
	will the car cost you after 5 years?

 You want to buy a \$5,000 car. You can get a 5year loan at 9% compound interest. How much total will the car cost you after 5 years?

ANSWERS	ANSWERS	
Interest Owed:	Total Cost:	
Total Cost:	Interest Owed:	
9. Your family wants to buy a house for \$100,000.	10. Your family wants to buy a house for \$100,000.	
The mortgage will have a simple interest rate of	The mortgage will have a compound interest	
4.75%. The mortgage is for 30 years. How much	rate of 4.75%. The mortgage is for 30 years. How	
total will the house cost your family after 30	much total will the house cost your family after	
years?	30 years?	
ANSWERS Interest Owed: Total Cost: 11. You want to buy a \$15,000 car. You can get a four-year loan at 6.5% simple interest. How much total will the car cost you after 4 years?	ANSWERS Total Cost: Interest Owed: 12. You want to buy a \$15,000 car. You can get a four-year loan at 6.5% compound interest. How	
ANSWERS	ANSWERS	
Interest Owed:	Total Cost:	
Total Cost:	Interest Owed:	

13. Holly is taking out a loan in the amount of \$10,000. Her choices for the loan are a 4-year loan at 4% simple interest and a 6-year loan at 5% simple interest. What is the **difference** in the amount of **interest** Holly would have to pay for each of these two loans?

	4-Year Loan		6-Year Loan
Interest Owed:		Interest Owed:	
	Final Answer: The Difference =		

14. Jack invested \$15,000 in an account that pays 4% annual simple interest. Jack will not make any additional deposits or withdrawals. How much *interest* will Jack earn on his investment at the end of 3 years?

Answer: _____

15. Nicolas has \$650 to deposit into a savings account. He will deposit his money into an account which earns $3\frac{1}{4}\%$ interest compounded annually. Nicolas will not make any additional deposits or withdrawals. What will be the **total balance** in his savings account at the end of 2 years?

Answer: _____

16. Jamie has \$1,500 to deposit into a savings account. He will deposit his money into an account which earns $4\frac{2}{5}\%$ interest compounded annually. Jamie will not make any additional deposits or withdrawals. How much *interest* will Jamie earn at the end of 4 years.

17. Olivia will deposit \$1,530 in an account that earns 6% simple interest every year. Her sister Melinda will deposit \$1,500 in an account that earns 8% interest compounded annually. The deposits will be made on the same day, and no additional money will be deposited or withdrawn from the accounts. How much **total** money will be in Olivia's account and Melinda's account at the end of 3 years?

Melinda's Account
Account Total:

18. For **Problem 17**, what is the *difference* between the amount Olivia and Melinda have in their savings accounts?

Answer: _____

19. Juan wants to buy a car. He asks two different banks about their loans. The car costs \$10,000. Bank 1 has a 5-year loan at 5.75% **simple interest**. Bank 2 has a 4-year loan at 5.5% **compound interest**. Which bank should Juan use to buy his car? How much money will he save by using the less expensive bank?

	Bank 1		Bank 2
Total Cost:		Total Cost:	
FINAL ANSU Which bank	WERS: t is better?		
How much	money will Juan save at the better	bank	?
When you b a	prrow money, is the interest free r	noney	y that you earn or extra money that you owe?
Circle one:	Free money that you earn	or	Extra money that you owe
When you in	vest money, is the interest free m	oney	that you earn or extra money that you owe?
Circle one:	Free money that you earn	or	Extra money that you owe
What do you	have to do with the <i>interest rate</i>	in ord	ler to use the formulas?
	Total Cost: FINAL ANSU Which bank How much When you ba Circle one: When you in Circle one:	Bank 1 Total Cost: FINAL ANSWERS: Which bank is better? How much money will Juan save at the better When you borrow money, is the interest free r Circle one: Free money that you earn When you invest money, is the interest free m Circle one: Free money that you earn When you invest money that you earn When you invest money that you earn When you have to do with the interest rate	Bank 1 Total Cost: FINAL ANSWERS: Which bank is better? How much money will Juan save at the better bank When you borrow money, is the interest free money Circle one: Free money that you earn or When you invest money, is the interest free money Circle one: Free money that you earn or When you invest money, is the interest free money When you invest money that you earn or When you have to do with the interest rate in ord