6.3 PROJECT

CAR LOANS: BRAND NEW OR PRE-OWNED?

According to the Brookings Institution, approximately 76% of working adults in the United States drive to work alone every day. Since owning a car is a big part of our lives, it is important to understand the true cost involved in a car loan. Brand new cars are more expensive but often can be financed at lower interest rates, while pre-owned vehicles cost less but often require a loan at a higher rate. In this activity, you will explore the difference in cost between financing a new vehicle and a pre-owned one.

Consider two options for purchasing a Honda Fit LX in 2020: one was a brand new 2020 model with a manufacturer's suggested retail price (MSRP) of \$17,945, and the other was a pre-owned, two-year-old model listed for \$15,000. Suppose you have saved \$1500 for a down payment and the dealer has already included any applicable fees, including taxes, in the advertised price. You plan on taking 5 years to pay off the loan.

The table below shows the price and interest rate for each option.

	Price	Interest Rate
2020 Honda Fit LX	\$17,945	1.9%
2018 Honda Fit LX	\$15,000	6.9%

For both the new and the pre-owned Honda Fit LX options, do the following.

- 1. Compute the amount to be financed considering that you have saved \$1500 for a down payment.
- **2.** Use the formula for a regular payment on a fixed installment loan to determine the monthly payment. Round your answer to the nearest dollar.
- **3.** Determine the total amount paid when repaying the car loan.
- **4.** Determine the finance charge for each purchasing option. This is the difference between the total amount paid on the loan and the amount financed.
- 5. Complete the following table.

	2020 Honda Fit LX	2018 Honda Fit LX
Price	\$17,945	\$15,000
Interest Rate	1.9%	6.9%
Down Payment		
Amount Financed		
Monthly Payment		
Total Amount Paid		
Finance Charge		

6. The pre-owned car definitely has a lower monthly payment, which might sound appealing when budgeting your expenses. Could you make an argument, using the values in your table, that the money borrowed to purchase the pre-owned vehicle is actually "more expensive" than the money borrowed to purchase the new vehicle? Explain your reasoning.