

Simple Interest

Buying a Car!

Directions: Choose 3 cars that you are interested in purchasing. Write down the information for these cars and determine the interest and balance for both banks.

Bank #1 (Best Rates 4 U): 12% for 4 years
Bank #2 (Lowest Bank Rates): 9% for 6 years







Car Information	Interest and Balance for "Best Rates 4 U"	Interest and Balance for "Lowest Bank Rates"
1.) Model: _____ Year: _____ Color: _____ Vin #: _____ Odometer: _____ Price: _____	Principal = _____ Rate = _____ Time = _____ $I = () () ()$	Principal = _____ Rate = _____ Time = _____ $I = () () ()$
2.) Model: _____ Year: _____ Color: _____ Vin #: _____ Odometer: _____ Price: _____		
3.) Model: _____ Year: _____ Color: _____ Vin #: _____ Odometer: _____ Price: _____		

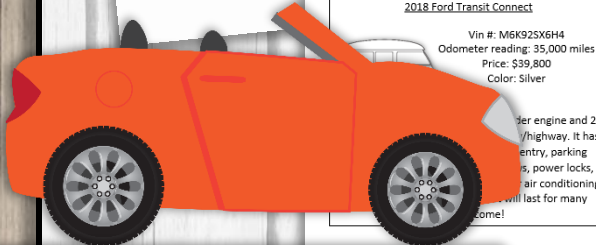
Directions: Out of the 3 cars, choose the car that you want to purchase. Fill out the application below (Make up an address and number – Do not use your own).

Car Loan Application

Name of Bank _____ and _____ Your Name _____
 Middle _____ Last _____
 City _____ Zip _____
 Cell Number: () _____
 Example (xxx)xxx-xxxx
 Optional _____
 Model _____ Year _____
 Price of Car: \$ _____
 Pay Back Loan): _____ months
 (Hint - $\frac{\text{Balance}}{\text{Loan Term}}$)
 Date _____
 APPROVED DENIED
 Date: _____
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Mr. Harrison's Car Dealership Newsletter

<p>2019 Toyota RAV4</p> <p>Vin #: 3XJ91MAK68 Odometer reading: 27,000 miles Price: \$27,899 Color: White</p>  <p>Description: The Rav4 is powered by a 203 HP 2.5 liter engine. It gets 28/32 mpg for city/highway. It comes with alloy wheels, bluetooth, navigation, heated leather seats, and third row seating (can seat 7 passengers). This vehicle is perfect for travel and growing families.</p>	<p>2019 Scion FR5</p> <p>Vin #: 3F974MDHJ7 Odometer reading: 10,259 miles Price: \$35,540 Color: Yellow</p>  <p>Description: The FR5 is a sporty coupe powered by a 2.0 liter engine. It has the power to go but also gets great gas mileage with 24/32 mpg for city/highway. The car comes with cloth interior, led gauges, spoiler, alloy wheels, bluetooth, touch screen radio, and a state of the art suspension that is ready for the track or road.</p>
<p>2020 Vespa Primavera 50</p> <p>Vin #: 7H48DM91SX Odometer reading: 2,000 miles Price: \$7,950 Color: Red</p>  <p>Description: The engine of this scooter is a 3-valve 4-stroke single cylinder. It gets amazing gas mileage with 80.91 mpg for combined city/highway. The engine power is 2.4 kW 3.2 HP at 7,500 rpm. The front suspension has a single arm with helical spring and single hydraulic shock absorber. This scooter will save you a lot of money in gas!</p>	<p>2019 Chevrolet Silverado 1500</p> <p>Vin #: 81MX61FC7Y Odometer reading: 22,000 miles Price: \$24,535 Color: Black</p>  <p>Description: The Silverado has a regular cab that seats 3 people and gets 15/22 mpg for city/highway. It has 2-wheel drive and the transmission is an 8-speed automatic. It includes bluetooth audio streaming for 2 active devices, voice command pass-through to phone, Apple CarPlay and Android Auto capable. The door locks and windows are manual.</p>
<p>2018 Ford Transit Connect</p> <p>Vin #: M6K925X6H4 Odometer reading: 35,000 miles Price: \$39,800 Color: Silver</p>  <p>Description: The Ford Transit Connect has a 1.8 liter engine and 2-wheel drive. It has power windows, power locks, power windows, power locks, air conditioning, and power windows. It will last for many years!</p>	<p>2020 BMW X6</p> <p>Vin #: 91TE13CSL Odometer reading: 5,000 miles Price: \$64,200 Color: White</p>  <p>Description: The BMW has 335-horsepower, turbocharged 3.0-liter six-cylinder or 523-hp, twin turbo 4.4-liter V8. It has all wheel drive and gets 21/26 mpg for city/highway. The BMW seats 5 people and has automatic power and window locks. It also includes a 12.3-inch touchscreen, leather upholstery, heated front seats, and ambient lighting.</p>



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Teacher Notes

Printing:

- If you decide to have students complete the activity individually then you need to print pages 4-7 for each student (Print pages 5-7 back to back and stapled).
- If you decide to have students complete the activity in groups then you need to print page 4 for each group and pages 5-7 for each student (Print pages 5-7 back to back and stapled).

Title	Page #
Mr. Harrison's Car Dealership Newsletter	4
Student Workspace	5
Car Loan Application	6
Check & Used Car Contract	7

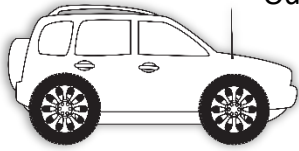
Implementing:

- 1.) Students will need to choose 3 out of the 6 vehicles that they are interested in purchasing.
- 2.) Students will calculate the interest and balance for the 3 vehicles from two bank offers.
- 3.) After completing all calculations, students will determine which car they want to purchase. In addition, they will determine which bank will give them the best offer.
- 4.) Students will fill out the car loan application. Make sure they use a fake address and phone number.
- 5.) The teacher will either "approve" or "deny" their loan application based off the calculated monthly payments. If incorrect, it will be denied and the student will need to fix it.
- 6.) Once approved, the students will write a check for the car dealership and sign a used car contract. The teacher will sign it at the end as the "Car Dealership Manager".

Please don't forget to rate my resource. If you have any questions you can contact me at mathindemand@hotmail.com. Thank you!!!

Mr. Harrison's Car Dealership Newsletter

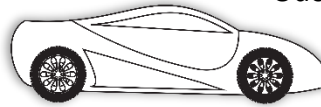
2019 Toyota RAV4



Vin #: 3XJ91MAK68
Odometer reading: 27,000 miles
Price: \$27,899
Color: White

Description: The Rav4 is powered by a 203 HP 2.5 liter engine. It gets 28/32 mpg for city/highway. It comes with alloy wheels, bluetooth, navigation, heated leather seats, and third row seating (can seat 7 passengers). This vehicle is perfect for travel and growing families.

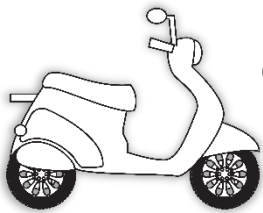
2019 Scion FRS



Vin #: 3F974MDHJ7
Odometer reading: 10,259 miles
Price: \$35,540
Color: Yellow

Description: The FRS is a sporty coupe powered by a 2.0 liter engine. It has the power to go but also gets great gas mileage with 24/32 mpg for city/highway. The car comes with cloth interior, led gauges, spoiler, alloy wheels, bluetooth, touch screen radio, and a state of the art suspension that is ready for the track or road.

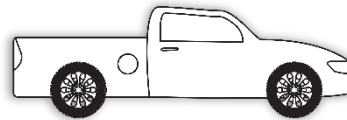
2020 Vespa Primavera 50



Vin #: 7H48DM91SX
Odometer reading: 2,000 miles
Price: \$7,950
Color: Red

Description: The engine of this scooter is a 3-valve 4-stroke single cylinder. It gets amazing gas mileage with 80.91 mpg for combined city/highway. The engine power is 2.4 kW 3.2 HP at 7,500 rpm. The front suspension has a single arm with helical spring and single hydraulic shock absorber. This scooter will save you a lot of money in gas!

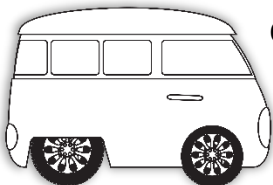
2019 Chevrolet Silverado 1500



Vin #: 8JMX61FC7Y
Odometer reading: 22,000 miles
Price: \$24,535
Color: Black

Description: The Silverado has a regular cab that seats 3 people and gets 15/22 mpg for city/highway. It has 2-wheel drive and the transmission is an 8-speed automatic. It includes bluetooth audio streaming for 2 active devices, voice command pass-through to phone, Apply CarPlay and Android Auto capable. The door locks and windows are manual.

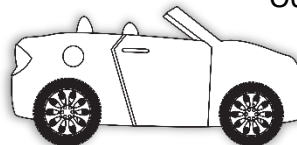
2018 Ford Transit Connect



Vin #: M6K92SX6H4
Odometer reading: 35,000 miles
Price: \$39,800
Color: Silver

Description: The Transit has a 4-cylinder engine and 2-wheel drive. It gets 19/27 mpg for city/highway. It has third row seating (seats 8), keyless entry, parking assist, auxiliary input, power windows, power locks, stability control, brake assist, and rear air conditioning controls. This is a great car that will last for many years to come!

2020 BMW X6



Vin #: 9JT6E13C5L
Odometer reading: 5,000 miles
Price: \$64,200
Color: White

Description: The BMW has 335-horsepower, turbocharged 3.0-liter six-cylinder or 523-hp, twin turbo 4.4-liter V8. It has all wheel drive and gets 21/26 mpg for city/highway. The BMW seats 5 people and has automatic power and window locks. It also includes a 12.3-inch touchscreen, leather upholstery, heated front seats, and ambient lighting.

Student Workspace

Name: _____

Date: _____

Directions: Choose 3 cars that you are interested in purchasing. Write down the information for these cars and determine the interest and balance for both banks.

Bank #1 (Best Rates 4 U): 12% for 4 years

Bank #2 (Lowest Bank Rates): 9% for 6 years

Car Information	Interest and Balance for "Best Rates 4 U"	Interest and Balance for "Lowest Bank Rates"
1.) Year: _____ Make: _____ Model: _____ Vin #: _____ Odometer: _____ Price: _____	Principal = _____ Rate = _____ Time = _____ $I = (\text{_____})(\text{_____})(\text{_____})$ I = _____ B = _____ + _____ B = _____	Principal = _____ Rate = _____ Time = _____ $I = (\text{_____})(\text{_____})(\text{_____})$ I = _____ B = _____ + _____ B = _____
2.) Year: _____ Make: _____ Model: _____ Vin #: _____ Odometer: _____ Price: _____	Principal = _____ Rate = _____ Time = _____ $I = (\text{_____})(\text{_____})(\text{_____})$ I = _____ B = _____ + _____ B = _____	Principal = _____ Rate = _____ Time = _____ $I = (\text{_____})(\text{_____})(\text{_____})$ I = _____ B = _____ + _____ B = _____
3.) Year: _____ Make: _____ Model: _____ Vin #: _____ Odometer: _____ Price: _____	Principal = _____ Rate = _____ Time = _____ $I = (\text{_____})(\text{_____})(\text{_____})$ I = _____ B = _____ + _____ B = _____	Principal = _____ Rate = _____ Time = _____ $I = (\text{_____})(\text{_____})(\text{_____})$ I = _____ B = _____ + _____ B = _____

Car Loan Application

Directions: Out of the 3 cars, choose the car that you want to purchase. Fill out the application below (Make up an address and number – Do not use your own).

This is a contract between _____ and _____.
Name of Bank Your Name

Customer Name: _____
First Middle Last

Address: _____
Street City Zip

Phone Number: (____) _____ Cell Number: (____) _____
Example (xxx)xxx-xxxx Example (xxx)xxx-xxxx

Email Address: _____
Optional

Car Info: _____
Make Model Year

Amount of Money Borrowing (**Price of Car**): \$ _____

Loan Term (# of Months to Pay Back Loan): _____ months

Monthly Payments: \$ _____ (Hint - $\frac{\text{Balance}}{\text{Loan Term}}$)

Your Signature

Date

For Bank Use Only

The application has been:

APPROVED

DENIED

Bank Manager Signature: _____ Date: _____

Directions: Once approved, you need to write a check for the car dealership.

IMPORTANT: You need to be aware that you are not only paying for the car but also for any extra fees such as taxes and registration.

Price of Car: \$ _____

8.5% Tax of Car Price: + \$ _____

Registration Fee: + \$500.00

Total Amount: = \$ _____

The image shows a check form template with the following fields and labels:

- Top right corner: 1234
- DATE: _____
- PAY TO THE ORDER OF: _____
- Amount field: _____
- DOLLARS: _____
- MEMO: _____
- Bottom left: 123456789012
- Bottom middle: 3456
- Bottom right: 7891

Write the check out to "Mr. Harrison's Car Dealership" for the total amount that you just calculated!

Used Car Contract

On this day, _____, this is a contract made between the Seller, Mr. _____
Date of Sale

Harrison's Car Dealership, and the Buyer, _____, for the sale of a
Your Name

Year Make Model

The VIN number is _____ and the odometer reads _____.
VIN Number Odometer Reading

Buyer agrees to pay the seller the total price of \$ _____. The payment will
Purchase Price

be made by _____. The car is sold "AS IS". The seller does not make
Type of Payment

any guarantees about the condition of the car.

Your Signature Date

Car Dealership Manager Signature Date

ANSWER KEYS

Students choose 3 out of 6 vehicles. Hence, their workspace may vary but they should still get the same calculations considering which car they choose. For example,

If students chose:

1.) **2019 Toyota RAV4** then the calculations should be:

Bank #1 (Best Rates 4 U)

$$I = \$13,391.52$$

$$B = \$41,290.52$$

Bank #2 (Lowest Bank Rates)

$$I = \$15,065.46$$

$$B = \$42,964.46$$

Bank #1 is the best option. Hence, the calculations should be:

Monthly Payment

$$\text{M.P.} = \frac{\$41,290.52}{48 \text{ months}} = \$860.22$$

Check Amount

$$0.085 \times \$27,899 = \$2,371.42$$

$$\$27,899 + \$2,371.42 + \$500 = \$30,770.42$$

2.) **2019 Scion FRS** then the calculations should be:

Bank #1 (Best Rates 4 U)

$$I = \$17,059.20$$

$$B = \$52,599.20$$

Bank #2 (Lowest Bank Rates)

$$I = \$19,191.60$$

$$B = \$54,731.60$$

Bank #1 is the best option. Hence, the calculations should be:

Monthly Payment

$$\text{M.P.} = \frac{\$52,599.20}{48 \text{ months}} = \$1,095.82$$

Check Amount

$$0.085 \times \$35,540 = \$3,020.90$$

$$\$35,540 + \$3,020.90 + \$500 = \$39,060.90$$

3.) **2020 Vespa Primavera 50** then the calculations should be:

Bank #1 (Best Rates 4 U)

$$I = \$3,816.00$$

$$B = \$11,766.00$$

Bank #2 (Lowest Bank Rates)

$$I = \$4,293.00$$

$$B = \$12,243.00$$

Bank #1 is the best option. Hence, the calculations should be:

Monthly Payment

$$\text{M.P.} = \frac{\$11,766.00}{48 \text{ months}} = \$245.13$$

Check Amount

$$0.085 \times \$7,950 = \$675.75$$

$$\$7,950 + \$675.75 + \$500 = \$9,125.75$$

ANSWER KEYS CONT.

If students chose:

4.) **2019 Chevrolet Silverado 1500** then the calculations should be:

Bank #1 (Best Rates 4 U)

$$I = \$11,776.80$$

$$B = \$36,311.80$$

Bank #2 (Lowest Bank Rates)

$$I = \$13,248.90$$

$$B = \$37,783.90$$

Bank #1 is the best option. Hence, the calculations should be:

Monthly Payment

$$\text{M.P.} = \frac{\$36,311.80}{48 \text{ months}} = \$756.50$$

Check Amount

$$0.085 \times \$ = \$2,371.42$$
$$\$27,899 + \$2,371.42 + \$500 = \$30,770.42$$

5.) **2018 Ford Transit Connect** then the calculations should be:

Bank #1 (Best Rates 4 U)

$$I = \$19,104.00$$

$$B = \$58,904.00$$

Bank #2 (Lowest Bank Rates)

$$I = \$21,492.00$$

$$B = \$61,292.00$$

Bank #1 is the best option. Hence, the calculations should be:

Monthly Payment

$$\text{M.P.} = \frac{\$58,904.00}{48 \text{ months}} = \$1,227.17$$

Check Amount

$$0.085 \times \$24,535 = \$2,085.48$$
$$\$24,535 + \$2,085.48 + \$500 = \$27,120.48$$

6.) **2020 BMW X6** then the calculations should be:

Bank #1 (Best Rates 4 U)

$$I = \$30,816.00$$

$$B = \$95,016.00$$

Bank #2 (Lowest Bank Rates)

$$I = \$34,668.00$$

$$B = \$98,868.00$$

Bank #1 is the best option. Hence, the calculations should be:

Monthly Payment

$$\text{M.P.} = \frac{\$95,016.00}{48 \text{ months}} = \$1,979.50$$

Check Amount

$$0.085 \times \$64,200 = \$5,457.00$$
$$\$64,200 + \$5,457.00 + \$500 = \$70,157.00$$

Questions? Contact me at mathindemand@hotmail.com.

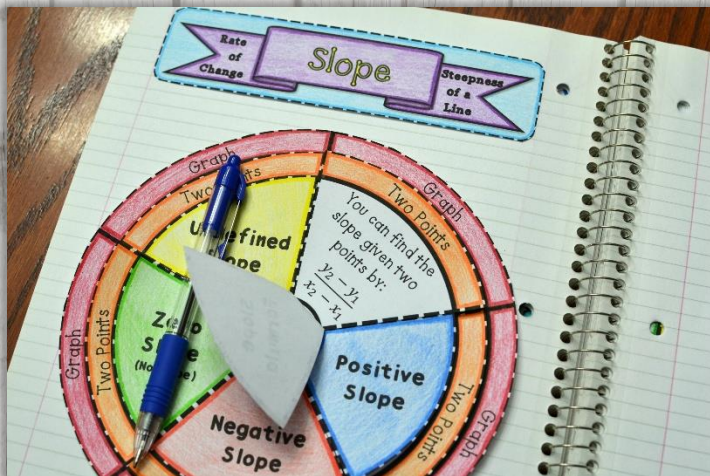
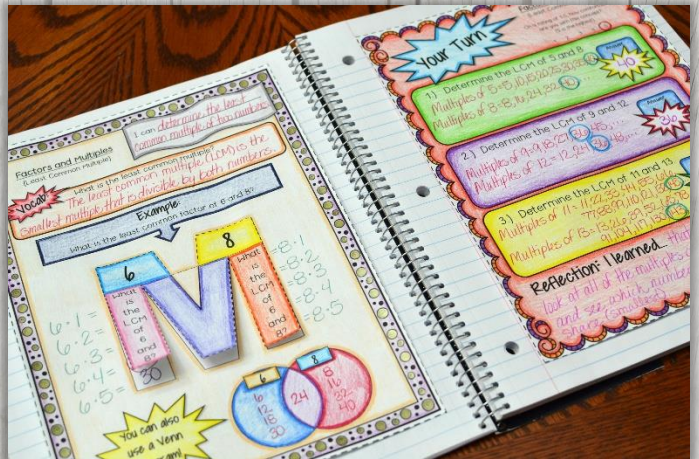
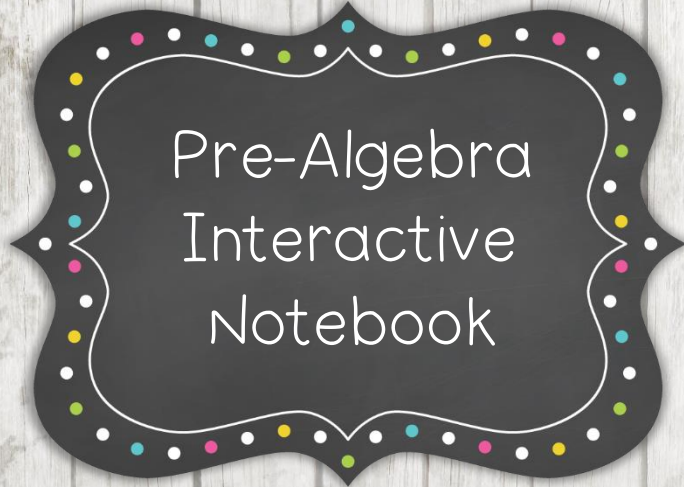
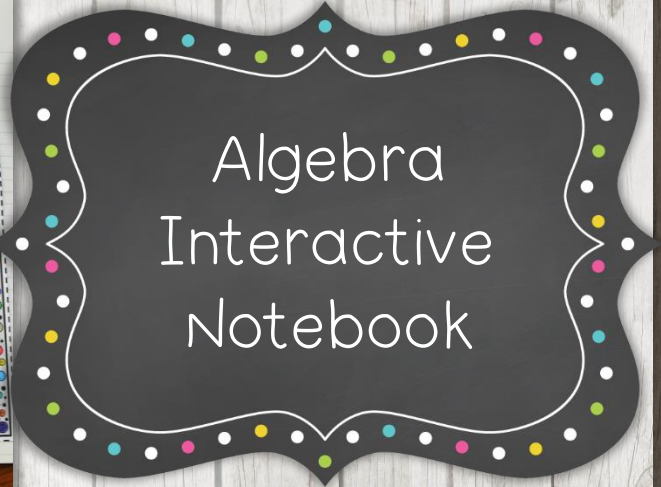
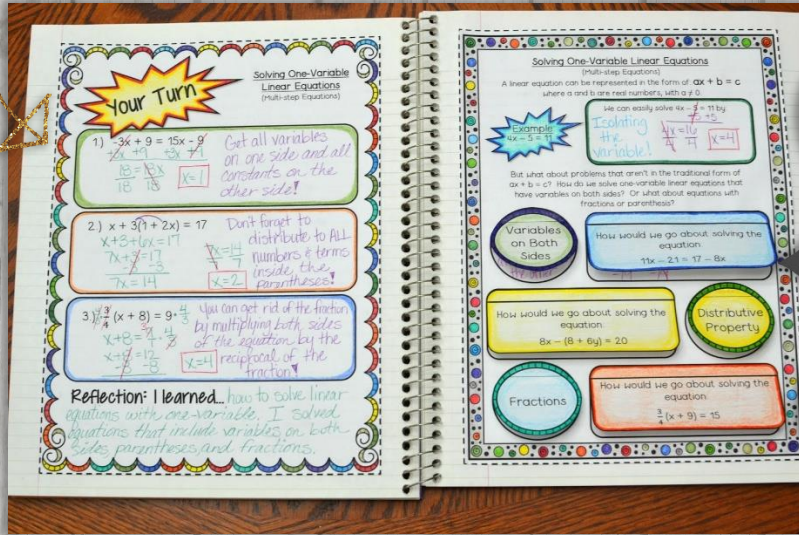
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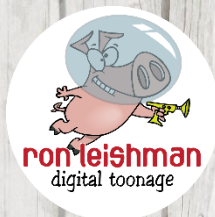
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