

## C2 Operating a Vehicle

- understand the fixed costs of operating a vehicle
- understand the variable costs of operating a vehicle

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## Think-Pair-Share (Operating Expenses)

Estimate the cost of operating a vehicle for a year. List the type's of expenses that may occur and the approximate cost of each one.

*Record Class Results in XMind*

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Once you purchase a vehicle there are a number of expenses involved in operating the vehicle. These expenses can be classified as **fixed expenses** or **variable expenses**.

### fixed costs

- costs that do not change from month to month
- have to be paid regardless of how much the vehicle is used
- examples are licence fees and insurance

### variable costs

- costs that change in amount or in how frequently they are paid
- examples are gas, tires, and maintenance
- the distance you drive, climate, your driving style, and maintenance affect the variable costs

*Sort Class Results in XMind*

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## Practice (Board Work)

Bob has just bought his dream car. He estimates that he will drive about 2000 km per month. The car's fuel consumption is 6.2 L/100 km. The table shows common maintenance and repair costs.

Maintenance/Repair	Schedule	Estimated Cost Including Tax
Change oil and filter	Every 3 months/5000 km	\$40
Rotate tires	Every 3 months/5000 km	\$20
Replace air filter	Every 12 months	\$30
Replace windshield wipers	Every 6 months	\$25
Replace front brakes	Every 50 000 km	\$400
Replace back brakes	Every 100 000 km	\$400
Replace tires	Every 4 years	\$1100
Replace timing belt	Every 150 000 km	\$1000

- How much will Bob spend on gas each month? Use the current price of gas.
- How much will Bob spend on maintenance in the first year?
- How much will Bob spend on maintenance in the first four years?

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