

## Section 4.2 Extra Practice

1. Calculate the monthly fixed cost for each vehicle.
  - a) \$287/month for financing;  
\$201/month for insurance
  - b) \$435/month for financing;  
\$2105/year for insurance
  - c) \$2336/year for financing;  
\$1998/year for insurance
  - d) \$1502/year for financing;  
\$1841/year for insurance
2. Derrick has a used car. His monthly car payment is \$113.85. He pays \$126 to license his car each year. His insurance premium is \$1300 annually.
  - a) Calculate Derrick's monthly fixed costs.
  - b) Calculate Derrick's annual fixed costs.
  - c) How much will Derrick pay in fixed costs over a three-year period?
  - d) Calculate Derrick's fixed costs after the car is paid off.
3. Wanda just bought a used car for \$8475.00, including taxes, at an interest rate of 4.9% for four years. Her insurance is \$1700 annually, and the yearly licence fee is \$126. Calculate Wanda's annual fixed costs.
4. Kevin's net annual salary is \$42 678. His annual fixed costs of owning his truck are \$6238.45. What percent of his annual salary are his fixed truck costs?
5. Danielle just bought a new SUV from a dealer. It cost \$37 426, excluding taxes. Danielle decides to purchase an extended warranty for \$1799.00 plus taxes. She plans to finance the total amount for 60 months at an interest rate of 3.8%.
  - a) What is Danielle's monthly payment?
  - b) If the licence fee is \$126 and insurance for the SUV costs \$2145 annually, calculate Danielle's annual fixed costs.
6. The fuel consumption rate on a truck is 9.2 L/100 km on the highway. How many litres of gasoline are needed to travel the following distances?
  - a) 125 km
  - b) 450 km
  - c) 725 km
  - d) 1000 km
  - e) 2500 km
7. How much does it cost to fill up vehicles with the following gas tank capacities? Use the current price of gas.
  - a) 40 L
  - b) 55 L
  - c) 90 L
8. Quinton purchases new studded winter tires for his vehicle at \$189.99 each. What is the cost, including taxes, of all four tires?



Name: \_\_\_\_\_

Date: \_\_\_\_\_

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(continued)

- 9.** Dale pays \$49.95 for an oil and filter change every six months. What is the total cost, including taxes, of oil and filter changes for two years?
- 10.** Robert has a five-year-old truck with 125 000 km on it. He drives about 25 000 km per year. How much should he budget to spend on maintenance and repairs over the next two years? Use the information below.

Maintenance/Repair	Schedule	Cost
Change oil and filter	Every 6 months/ 15 000 km	\$65
Rotate tires	Every 6 months/ 15 000 km	\$25
Replace air filter	Every 12 months	\$30
Replace windshield wipers	Every 12 months	\$25
Replace front brakes	Every 50 000 km	\$400
Replace rear brakes	Every 100 000 km	\$400
Replace tires	Every 4 years	\$1000
Replace timing belt	Every 150 000 km	\$1100

