# Time Out for Traveling 

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This is a modification of an article by Richard Trimarco which was originally published in the May 1981 issue of the Mathematics Teacher. The original article applied to the Boston-Philadelphia area and used imperial units.

## Activity 1.

If you travel by bus from Calgary to Vancouver, departure is at 1830 and arrival is at 1000 the next morning. (Don't forget the time zone change.) A oneway ticket costs \$39.10.

1. How far is Vancouver from Calgary by bus? (Distance between towns is given in kilometres.)
2. What is the average speed of the bus, assuming only a five-minute stop at each center shown on the map?
3. What does it cost per kilometre to travel by bus?


## Activity 2.

If you fly from Calgary to Vancouver, you can leave Calgary at 1720 and arrive in Vancouver at 1740 on a DC-9 airplane.

1. Use your ruler and the scale given to find the distance by air from Calgary to Vancouver.
2. What is the flying time? (Don't forget the time zone change.)
3. Find the average flight speed for the $D C-9$ in kilometres per hour.
4. If the one-way economy fare is $\$ 87$, what is the cost per kilometre?


## Activity 3.

Suppose you travel by automobile from Calgary to Vancouver on the TransCanada Highway. Gasoline costs an average of 38 cents per litre.

1. How far is Vancouver from Calgary?
2. If you average $80 \mathrm{~km} / \mathrm{hour}$ and drive nonstop, how long would the trip take in hours and minutes?
3. Find the cost of gasoline for the trip if your car averages ll litres/km.
4. Estimate the cost per kilometre of the automobile trip. What cost factors other than those given should be considered in order to obtain a valid estimate of the actual cost per kilometre?

