## Deb the Driver

## Activity One

The fuel tank in Deb's car holds 48 litres. Here are the car's fuel gauge and odometer at the start and finish of a trip. The odometer shows the distance travelled in kilometres.


1. How far has Deb travelled on this trip?
2. Approximately how much fuel has her car used?
3. How many kilometres per litre ( $\mathrm{km} / \mathrm{L}$ ) has Deb's car done on this trip?
4. Deb gives her car a tune-up and then goes for another, shorter, drive.

Here are the gauges at the start and finish:


Has tuning the car improved its economy? Explain your answer.


1. a. Use the information from Activity One, question 4 to work out how far Deb should now be able to drive on a full tank.
b. If she averages 80 kilometres per hour ( $\mathrm{km} / \mathrm{h}$ ), how long will it take Deb to drive this distance?
2. Deb is not sure if her speedometer is working properly. She decides to test it on a drive to Cromwell:

I'll drive steadily at 90 kilometres per hour.

I'm here. How long did that take?

