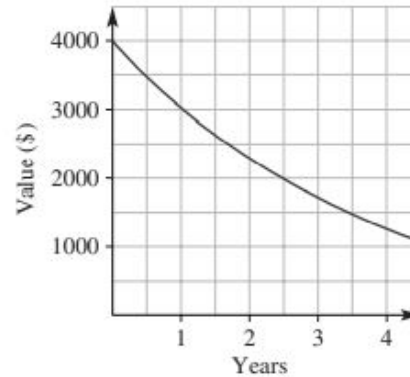


- 1 The decrease in the price of a used car over four years is shown in the graph opposite.
- What is the initial value of the used car?
  - How much did the used car decrease in price during the first year?
  - When is the value of the used car \$2000?
  - When is the value of the used car \$1500?
  - What is the value of the used car after 4 years?
  - What is the value of the used car after  $1\frac{1}{2}$  years?



- 2 The table below shows the running costs for fuel, tyres and servicing as cents per km for four brands of motor vehicle.

	Brand A	Brand B	Brand C	Brand D
Fuel	5.06	6.90	9.69	8.99
Tyres	1.03	1.18	0.88	1.28
Service	2.51	3.73	3.02	3.88

- What is the cost of service for the Brand D vehicle?
  - Which of the cars has the best fuel economy?
  - Harry has driven his Brand C vehicle 7580 kilometres this year. What is the fuel cost of his vehicle for the year?
  - Calculate the difference in service costs between Brand A and Brand B, when both cars are driven 15000 km in a year.
  - What is the difference in tyre costs between Brand D and Brand A, when they are both driven 100000 km?
- 3 The table below shows the petrol used at different speeds to cover the same distance.

Speed	50 km/h	70 km/h	90 km/h	110 km/h
Litres	34	38	43	49

- How much petrol would you save by travelling at 50 km/h instead of 70 km/h?
- How much petrol would you save by travelling at 70 km/h instead of 110 km/h?
- What is the difference in cost of travelling at 50 km/h instead of 90 km/h? Assume the petrol costs are \$1.45 per litre.

