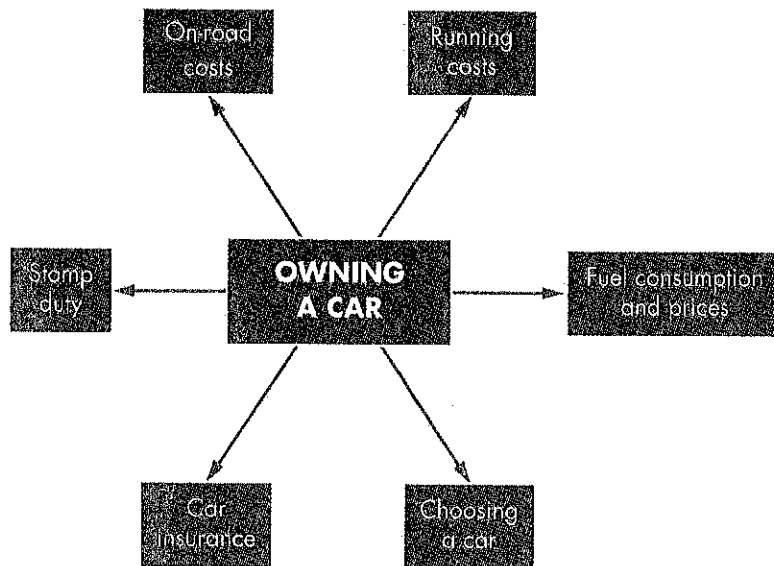


9. CHAPTER SUMMARY

This chapter, Owning a car, looked at the costs of owning a car. These costs include on-road costs such as the purchase price, insurance, registration and stamp duty. It also looked at the running costs of owning a vehicle such as fuel consumption, registration and insurance of the car, fuel consumption, service, maintenance and repairs.

Make a summary of this topic. Use the outline at the start of this chapter as a guide. An incomplete mind map is shown below. Use your own words, symbols, diagrams, boxes and reminders. Gain a 'whole picture' view of the topic and identify any weak areas.



9. TEST YOURSELF

clude on-road
looked at the
insurance of the

guide.
ams, boxes and
s.

1 This table gives two examples of Third Party Property insurance premiums.

Car make	Driver gender	Driver age	Town where vehicle is garaged	Place where car is usually kept	Third Party Property premium
Mitsubishi	male	42	Parramatta	driveway	\$297
Nissan	female	65	Bondi	security compound	\$302

Exercise
9.01

What is the insurance premium for:

- a the Nissan driver who gets a 5% discount for secure garaging?
 - b the male driver who pays an 8% levy for non-secure garaging in a high-theft area?
- 2 Ben had Third Party Property insurance, paid by a direct debit of \$15.80 per fortnight.
- a How much would he save if he paid a yearly amount of \$402.50 upfront?
 - b He hit a tree and wrote off his car, worth \$15 600. What is his insurance cover?

Exercise
9.02

3 Use the table below to find the stamp duty on cars valued at:

- a \$23 600
- b \$57 000
- c \$4800
- d \$84 600.

Exercise
9.03

Car value	Stamp duty rate
up to \$5000	1.5%
plus each \$ between \$5001 and \$35 000	2.5%
plus each \$ over \$35 000	5.0%

4 In one state of Australia, stamp duty is based on whichever is higher – the market value or the purchase price.

Exercise
9.03

Value	Stamp duty
\$54 500 or less	\$5 for every \$200 or part thereof
over \$54 500	\$10 for every \$200 or part thereof

Use this table to find the stamp duty on vehicles with:

- a purchase price \$23 600 and market value \$24 500
- b purchase price \$36 750 and market value \$32 400
- c market value \$69 300 and purchase price \$71 260
- d market value \$59 800 and purchase price \$58 000.

- 5 The rates for stamp duty in NSW are shown in this table.

Vehicle value	Rate
\$0–\$44 999	\$3 for every \$100 (or part of \$100)
\$45 000 and over	\$1350 plus \$5 for every \$100 (or part of \$100) over \$45 000

Calculate the stamp duty on a car valued at:

- a \$21 370 b \$44 020 c \$58 700 d \$89 220.

Exercise 9.03

- 6 Raphael bought a new car with the following upfront costs..

Purchase price	\$24 999
Stamp duty	1.5% up to \$5000 plus 2.5% for each dollar between \$5000 and \$20 000 plus 4.5% for each dollar over \$20 000
Registration	\$328
CTP Green Slip	\$503
Comprehensive insurance	\$1204

What was the total upfront cost of his car?

Exercise 9.04

- 7 Nadia spends \$42 on fuel per week and her comprehensive car insurance is \$70.81 per month. She also pays \$812.68 for car registration and CTP insurance, and services cost her \$590 annually. Other repairs and replacement of tyres cost \$450. Nadia uses the motorways 5 days a week at an average cost of \$62 per week.

Find the total running cost of Nadia's car for:

- a the year b a week.

Exercise 9.05

- 8 The fuel consumption of a four-wheel drive vehicle was measured under various conditions.

Conditions	Fuel consumption (L/100 km)	Trip distance (km)	Fuel used (L)
City driving non-peak hour	14.5	35	
City driving in peak hour	12.7	26	
Highways	10.8	460	
Outback dirt roads	8.4	2635	
Towing a caravan	7.3	9870	

- a What is the average fuel consumption (in L/100 km) for these five conditions?
b Complete the table by calculating, correct to one decimal place, the fuel used for the trip distances for each condition.
c What are three ways to improve fuel consumption?

9 The table shows the fuel consumption for some vehicles.

Car type	Fuel consumption (L/100 km)
Ford Falcon	11.7
Holden Commodore	11.3
Honda Jazz	5.7
Hyundai Sonata SLX	8.0
Lexus GS300	9.8
Mini Cooper	5.8
Mitsubishi Colt	5.6
Nissan Patrol	17.2
Peugeot 308	6.7
Toyota Aurion	9.9

- a What is the range of fuel consumptions for these ten cars?
 - b What is the average fuel consumption for these ten cars?
 - c What is the rate in L/km for the:
 - i Peugeot 308? ii Honda Jazz? iii Holden Commodore?
 - d How many kilometres can the Ford Falcon travel on a 70 L tank of fuel?
 - e How much fuel does the Lexus use for a trip of 2500 km?
- 10 Unleaded petrol at a service station is 158.9 cents per litre. Diesel fuel is priced at 128.6 cents per litre.

What is the difference in cost of filling up tanks that hold 70 L?

SOLUTIONS

Exercise 9.06

1 \$222.87

2 Car 1: \$105 780

Car 2: \$105 510

Car 2 is slightly cheaper.

3 65 L of petrol costs \$42.1 more.

4 a \$24 525

b \$201.55

5 a \$35 096.16,

b \$34 774.44

B is the better option

6 The warranty is for 5 years or 100 000 km, whichever comes first.

So if a car with this warranty covers a distance of 100 000 km in 2 years, the warranty has then lasted only 2 years.

7 Teacher to check.

Sample HSC problem

a \$561

b i \$9 293

ii \$5 920

iii \$124.62

Test yourself 9

1 a \$286.90 b \$320.76

2 a \$8.30

b Nothing. He was only insured for damage to other people's property. He needs comprehensive insurance to insure his own property.

3 a \$540 b \$1925 c \$72 d \$3305

4 a \$615 b \$920 c \$3570 d \$2990

5 a \$642 b \$1323 c \$2035 d \$3565

6 \$27 708.96

7 a \$8110.40 b \$155.97

8 a 10.74 L/100 km

b 5.1, 3.3, 49.7, 221.3, 720.5

c Don't speed; accelerate slowly; walk or cycle short distances

9 a 11.6 L/100 km b 9.17 L/100 km

c i 0.067 ii 0.057 iii 0.113

d 598 km

e 245 L

10 \$21.21

Practice paper 3

1 B

2 D

3 B

4 C

5 D

6 A

7 D

8 A

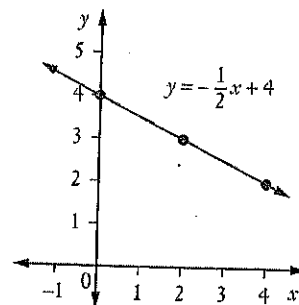
9 C

10 A

11 a i \$19 750 ii 8 years

b i $m = -\frac{1}{2}$, y-intercept, $c = 4$

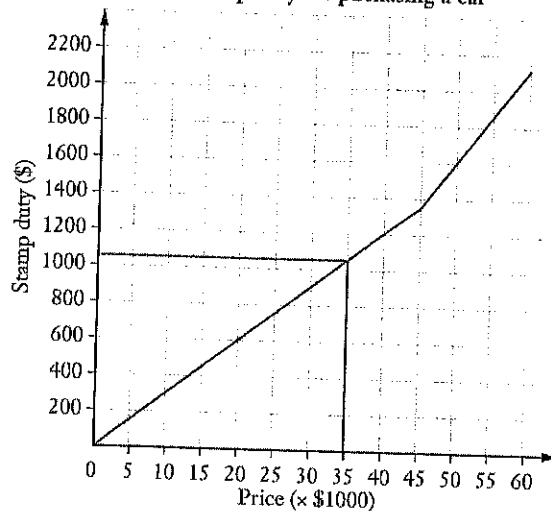
ii



c i 600, 900, 1200, 1350, 1600, 2100

ii

Stamp duty for purchasing a car



iii \$1050

12 a CTP insurance protects owners/drivers from legal liability for personal injury or death to any other person. Third Party Property insurance is optional and covers damage to other vehicles and property where you are at fault. It does not cover damage to your vehicle.