

Name: _____

TOPIC TEST

Owning a car

- Time allowed: 45 minutes
- Part A: 20 multiple-choice questions (20 marks)
- Part B: 8 free-response questions (30 marks)

Part A

20 multiple-choice questions
1 mark each: 20 marks
Circle the correct answer.

- 1 Third Party Property insurance costs \$39.26 per month. The cost per week is:
- A \$9.03 B \$9.06
C \$9.82 D \$9.81
- 2 What type of motor insurance only covers damage to other vehicles and property in an accident?
- A Comprehensive insurance
B Compulsory Third Party insurance
C Third Party Property insurance
D Registration
- 3 Rhonda pays \$61.03 per month for her comprehensive car insurance. How much would she save if she paid the annual sum with one payment of \$652.38?
- A \$0
B \$591.35
C \$42.08
D \$79.98
- 4 Which of the following is not a factor affecting an insurance premium?
- A Postcode where vehicle is garaged
B Driver's age
C Driver's height
D Number of 'at fault' accidents
- 5 Part of the fee calculation for Maxine's greenslip is shown below. The MCIS Levy is 31.62% of the base premium before GST. Calculate the total premium.
- | | Amount |
|---------------|----------|
| Base Premium | \$256.41 |
| GST (10%) | |
| MCIS Levy | |
| Total Premium | |
- A \$371.24
B \$363.13
C \$362.21
D \$316.98

- 6 Calculate the stamp duty on a vehicle purchased for \$21 890 if stamp duty is \$3 for every \$100 (or part of \$100).
- A \$656 B \$657
C \$659 D \$660
- 7 Calculate the stamp duty on a vehicle purchased for \$49 110 if stamp duty is \$3 for every \$100 (or part of \$100) for the first \$45 000 and \$5 for every \$100 on the remainder.
- A \$1560 B \$1550
C \$2460 D \$1470
- 8 Declan paid \$320 stamp duty when he purchased a car for \$16 000. What percentage of the purchase price was the stamp duty?
- A 20% B 2%
C 3% D 2.5%
- 9 A vehicle is purchased for \$48 200. GST is 10% of the purchase price. Stamp duty (calculated on the GST price) is \$1350 plus \$5 for every \$100 or part of \$100 on the cost over \$45 000. How much stamp duty is paid?
- A \$1510 B \$1751
C \$1640 D \$1755
- 10 Calculate the total upfront cost of a 4WD using the table below.
- | | |
|----------------|-----------------|
| Purchase price | \$46 000 |
| GST | 10% |
| Stamp duty | 5% of GST price |
| Registration | \$890 |
| Greenslip | \$450 |
- 11 Sergei bought a car with the following costs:
- | | |
|-----------------------------|----------|
| Purchase price | \$58 400 |
| GST (10% of purchase price) | |
| Stamp duty | \$2312 |
| Registration | \$615 |
| CTP Insurance | \$430 |
| Comprehensive Insurance | \$1570 |
| TOTAL COST | |
- What is the total cost of the vehicle?
- A \$69 167 B \$67 169
C \$63 327 D \$65 234
- 12 What percentage of the purchase price are the five additional costs in question 11?
- A 15.6% B 17.8%
C 18.4% D 9.4%
- 13 If it costs \$59.67 for 45 L of petrol, what is the cost of a full tank (60 L) of petrol?
- A \$76.50 B \$79.56
C \$78.40 D \$99.45
- 14 A car has a fuel consumption of 7.1 L/100 km. How much fuel will it use for a 2240 km trip?
- A 156.8 L B 1590.4 L
C 158.02 L D 159.04 L

15 How far can the car in question 14 travel on 23 L of fuel?

- A 363 km B 164 km
C 324 km D 312 km

16 The table below shows the purchase price of a car and the basic insurance premium. Ruby receives an 8% discount on the purchase price, but pays 5% extra on her insurance as she is under 25 years of age.

Purchase price	\$35 298
Basic insurance premium	\$324

What is the total of Ruby's purchase price and insurance premium?

- A \$35 622
B \$32 814.36
C \$32 461.38
D \$32 781.96

17 A car travels 180 km on 19.62 L petrol. What is its fuel consumption in L/100 km?

- A 10.9 B 10.8
C 9.17 D 9.18

18 Tim spent \$54.12 on fuel last week and paid \$1.32/L. How far can he travel on this amount of fuel if his fuel consumption is 6.9 L/100 km?

- A 586 km B 592 km
C 638 km D 594 km

19 Calculate the weekly running cost of a car that travels 22 000 km per year at a cost of 38.25 c/km.

- A \$138.98
B \$8415
C \$161.83
D \$165.83

20 The on-road and running costs for two vehicles are shown below. What is the difference in the cost over 4 years for the two vehicles?

	On-road cost	Running cost
Car 1 (Diesel)	\$45 050	\$234.56/week
Car 2 (Unleaded petrol)	\$44 320	\$1025/month

- A \$181.52
B \$3435
C \$315.60
D \$318.48

Part B

8 free-response questions

30 marks

Show your working where appropriate.

21 The table below lists an insurance company's premiums for Third Party Property insurance.

Car make	Driver gender	Suburb where vehicle is garaged	Place where car is usually kept	Annual premium
Mitsubishi	male	Parramatta	Driveway	\$297
Nissan	female	Bondi	Security compound	\$302

a Laura is aged 82 and drives a Nissan. She pays an extra 24% age levy but then gets a 4.2% loyalty discount on the increased premium. Calculate her premium for Third Party Property insurance.

b How much more does Laura pay than a male Mitsubishi driver from Parramatta whose car is kept in the garage and who gets a 20% no-claim discount?

[4 marks]

22 a Last year in Westvale, the recovery rate for stolen vehicles was 89.1%. If the number of vehicles stolen in Westvale was 47 536, how many were recovered?

b Last year in Northwood, 23 989 vehicles were recovered and the recovery rate was 80.2%. How many vehicles were stolen in Northwood?

[4 marks]

23 Keshani paid \$724.65 for a new Comprehensive insurance policy after receiving a 12% discount.

What discount did she receive?

[3 marks]

24 Stamp duty charged on a vehicle is \$1050 plus 11% of the car's value over \$35 000. What is the value of a car for which the stamp duty charged was \$1413?

[3 marks]

25 The table shows the average annual vehicle running costs for three states in 2014.

State	NSW	VIC	QLD
Servicing and maintenance	\$953	\$1010	\$1096
Registration and insurance	\$1474	\$1232	\$1096
Parking and tolls	\$298	\$311	\$181
Fines	\$53	\$106	\$70
Petrol	\$2834	\$2979	\$3494

a Calculate the fortnightly running costs for Victoria.

b What percentage of the annual running costs for a vehicle in Victoria is fuel?

[4 marks]

26 Anthony used 5.7 L of fuel during a trip and his car's fuel consumption was 6.4 L/100 km. How far (correct to the nearest kilometre) did Anthony travel on his trip?

[4 marks]

27 Diesel prices (in c/L) for seven consecutive days in a city were: 132.8, 131.3, 128.6, 141.2, 129.3, 137.9 and 130.5.

a What was the average diesel price over this time?

b What was the range of prices?

[3 marks]

28 Henrik bought a car for \$28 630, which included on-road costs. He paid 55% of this amount in cash and borrowed the rest at 7.5% p.a. flat interest over 4 years.

a How much did Henrik borrow, rounded up to the nearest dollar?

b How much should Henrik budget per week to cover the cost of repayments? (correct to the nearest 5 cents)

[5 marks]

This is the end of the test.
Use this page for extra working space.

Answers**Part A**

- | | | | |
|------|------|------|------|
| 1 B | 2 C | 3 D | 4 C |
| 5 B | 6 B | 7 A | 8 B |
| 9 D | 10 C | 11 A | 12 C |
| 13 B | 14 D | 15 C | 16 B |
| 17 A | 18 D | 19 C | 20 D |

Part B

- 21 a \$358.75
b \$121.15
- 22 a 42 355
b 29 911
- 23 \$98.82
- 24 \$38 300
- 25 a \$216.85
b 52.8%
- 26 89 km
- 27 a 133.1 c/L
b 12.6 c/L
- 28 a \$12 884
b \$80.55