

2021 Worksheet 5

Year 11 Life Mathematics

Write the answers in your Exercise Book.

1. (a) Explain the term **hire purchase**. **(1 mark)**

(b) State **one** advantage of hire purchase for the consumer. **(1 mark)**

(c) State **one** disadvantage of hire purchase for the consumer. **(1 mark)**

2. Jone is comparing two different models of car.

- Car *A* uses fuel at the rate of 12 L /100 km.
- Car *B* uses 9 L /100 km.

Suppose Jone plans on driving 7000 km in a year, how much less fuel will he use driving car *B* instead of car *A*? **(2 marks)**

3. Bobby is employed as a salesman. He is offered three methods of calculating his income.

- **Method 1:** 10 % commission on sales only.
- **Method 2:** \$215 per week plus 1.1 % commission on sales.
- **Method 3:** \$180 per week plus 3.5 % commission on sales.

If Bobby sells \$2250 worth of goods per week, which method he should choose in order to earn the greater income? Justify your answer with appropriate calculations. **(2 marks)**

4. Tom is paid on a **piecework** basis at a rate of \$1.50 cents for each piece up to 150 pieces per week. For any pieces produced in excess of 150 pieces, he receives \$1.75 for each piece. In one week he produced 290 pieces.

Calculate his weekly wage. **(2 marks)**