

Question 1**(5 marks)**

The owner of a bicycle shop recorded the type of repairs he made to bicycles with different purchase prices.

| | | Purchase price | | | Total |
|----------------|----------------------|-----------------|----------------------|---------------------|-------|
| | | Less than \$500 | From \$500 to \$1000 | Greater than \$1000 | |
| Type of repair | Wheels and tyres | 36 | 6 | 18 | 60 |
| | Gears and brakes | 20 | 12 | 8 | 40 |
| | Frame and suspension | 15 | 2 | 3 | 20 |

- (a) Identify the explanatory variable for the table above. (1 mark)

The percentages in each row of the following table show the proportion of bicycles with different purchase prices requiring that type of repair.

- (b) Complete the table. (2 marks)

| | | Purchase price | | | Total |
|----------------|----------------------|-----------------|----------------------|---------------------|-------|
| | | Less than \$500 | From \$500 to \$1000 | Greater than \$1000 | |
| Type of repair | Wheels and tyres | | 10 | | 100 |
| | Gears and brakes | | 30 | 20 | 100 |
| | Frame and suspension | 75 | | | 100 |

- (c) Using the information from the table in part (b), describe **one** association between these variables. (2 marks)