

**Answer all TWELVE questions.**

**Write your answers in the spaces provided.**

**You must write down all the stages in your working.**

- 1 The manufacturer's price for a *Jinko* car is \$ $x$

Ben was given a 7% discount on the manufacturer's price when he bought a *Jinko*.  
Ben paid \$23 622 when he bought his *Jinko*.

- (a) Calculate the value of  $x$ .

(2)

After a year Ben sold his *Jinko* for \$19 880

- (b) Calculate the percentage loss, to 3 significant figures, on the price Ben paid for his *Jinko*.

(2)

During the year that Ben owned the *Jinko*, he travelled  $d$  km in the car.

The average fuel consumption of the car was 10km per litre.

The average cost of the fuel he used was \$1.40 per litre.

Other costs for the car in the year came to \$938

The cost per km, including the loss in value, of his *Jinko* to Ben during the year that he owned the car was \$0.40

- (c) Calculate the value of  $d$ .

(4)



### **Question 1 continued**

**DO NOT WRITE IN THIS AREA**

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(Total for Question 1 is 8 marks)

