3.6 Proportion: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A pack of 6 pens costs £3.48. Work out the cost of 1 pen.

(Total for Question 1 is 1 mark)

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2 Here are the ingredients for 6 people.
Tomatoes 150 g, onions 60 g.
Work out how much of each ingredient is needed to make the same curry for 20 people.

(Total for Question 2 is 3 marks)

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3 A car uses 12 litres of petrol to travel 180 km.
How many litres are needed for a journey of 1440 km, at the same rate?

(Total for Question 3 is 2 marks)

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4 A car uses 10 litres of petrol to travel 130 km.
How far can it travel on 80 litres of petrol, at the same rate?

(Total for Question 4 is 2 marks)

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Mark scheme · 3.6 Proportion: 10-minute Pack

Question 1

£0.58 cao	**B1**

Answer: £0.58 (3.48 / 6 = 0.58).

Question 2

multiplier 20/6 or amounts for one person	**M1**
tomatoes 500 g	**A1**
onions 200 g	**A1**

Answer: tomatoes 500 g and onions 200 g

Question 3

scale factor 8 or 12 / 180 litres per km	**M1**
96 litres	**A1**

Answer: 96 litres

Question 4

130 / 10 km per litre or scale factor 8	**M1**
1040 km	**A1**

Answer: 1040 km

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