HIGHER

7.2 Bounds: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The length of a track is 380 cm, correct to the nearest 10. Write down the error interval for the length, L cm.

(Total for Question 1 is 2 marks)

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2 a = 8 and b = 18.8, each correct to 1 decimal place. Work out the upper bound of a x b.

(Total for Question 2 is 3 marks)

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3 A rectangle has length 165 cm and width 30 cm, each correct to the nearest 5 cm. Work out the upper bound for the area of the rectangle.

Diagram NOT accurately drawn



(Total for Question 3 is 4 marks)

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Mark scheme · 7.2 Bounds: 10-minute Pack

Question 1

lower bound 375	**B1**
upper bound 385 with correct inequalities	**B1**

Answer: $375 \leq L < 385$

Question 2

correct bound for a	**B1**
correct bound for b	**B1**
151.7425 cao	**B1**

Answer: 151.7425

Question 3

upper bound of length 167.5	**B1**
upper bound of width 32.5	**B1**
multiplies two bounds	**M1**
5443.75 cm² cao	**A1**

Answer: 5443.75 cm^2

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