3.8 Percentage Change: 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 25% of 160.

(Total for Question 1 is 1 mark)

2 A quantity increases from 40 to 52. Work out the percentage increase.

(Total for Question 2 is 2 marks)

3 A company sold 24 800 tablet computers in one year and 23 150 tablet computers the next year. Work out the percentage decrease in the number sold. Give your answer correct to 3 significant figures.

(Total for Question 3 is 3 marks)

4 Two shops each had a fall in customer numbers last month. Shop A had 220 customers and now has 187 customers. Shop B had 340 customers and now has 292 customers. Work out which shop had the greater percentage decrease in customers. You must show your working.

(Total for Question 4 is 3 marks)

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Mark scheme · 3.8 Percentage Change: 10-minute Pack

A correct answer earns full marks unless the question asks for working, a method, proof or explanation.

Question 1

40 cao	**B1**

Answer: 40

Question 2

12 seen (52 - 40), or equivalent method	**M1**
30% cao	**A1**

Answer: 30%

Question 3

1650 seen (24800 - 23150)	**M1**
1650/24800 x 100 (oe)	**M1**
awrt 6.65% (3sf)	**A1**

Answer: 6.65%

Question 4

Shop A: 33/220 x 100 (= 15%)	**M1**
Shop B: 48/340 x 100 (awrt 14.1%)	**M1**
Shop A, with correct comparison (15% > 14.1%), oe ft from their two correctly found percentages	**A1**

Answer: Shop A (15% decrease vs 14.1% decrease)

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