5.5 Two-Way Tables and Frequency Trees: 10-minute Pack

Calculators not allowed · about 10 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A table is partly damaged. From 150 shoppers, 90 bought shoes and 60 did not. Of those who bought shoes, 55 were adults. Complete the missing cell: how many children bought shoes?

(2)

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2 A frequency tree shows outcomes for 200 customers: 120 choose product A, 80 choose product B. Of those who choose A, 50 choose the premium option; of those who choose B, 20 choose the premium option. Find how many customers choose the premium option and the probability that a randomly chosen customer chose B and the premium option.

(3)

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3 There are 240 pupils in Year 8. 4/5 of them are in the school choir. 2/4 of the choir members play an instrument. Work out how many pupils are in the choir and play an instrument.

(3)

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Mark scheme · 5.5 Two-Way Tables and Frequency Trees: 10-minute Pack

Question 1

children who bought shoes = total bought shoes - adults who bought shoes = 90 - 55 = 35	**M1**
35 cao	**A1**

Answer: **35**

Question 2

premium total = 50 + 20 = 70	**M1**
customers B premium = 20 and form probability 20/200	**M1**
probability = 1/10 cao	**A1**

Answer: **Premium total 70; probability 1/10**

Question 3

4/5 x 240 = 192	**M1**
2/4 x 192	**M1**
96 cao	**A1**

Answer: **96**

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