

Paper Reference 9FM0/3B
Pearson Edexcel
Level 3 GCE

Further Mathematics

Advanced
PAPER 3B: Further Statistics 1

Friday 13 June 2025 – Afternoon
Time: 1 hour 30 minutes

Diagram Booklet

THIS DOCUMENT MUST BE RETURNED TO PEARSON AT THE
END OF THE EXAMINATION.

In the boxes below, write your name, centre number and candidate number.

Surname					
Other names					
Centre Number					
Candidate Number					

INSTRUCTIONS

There may be spare copies of some diagrams.

Contents

Page

3 Question 2

4 Question 3 – Table 1

5 Question 3 – Table 2

6 Question 3 – Table 3

Spare Copies

7 Question 3 – Table 2 – spare copy

Question 2

x	−1	a	b
P(X = x)	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$

Question 3 – Table 1

Table 1: Observed frequencies

Period Test result	1990–1999	2000–2004	2005–2013	Total
Pass	45	70	65	180
Fail	75	90	55	220
Total	120	160	120	400

Question 3 – Table 2

Table 2: Expected frequencies

Period Test result	1990–1999	2000–2004	2005–2013
Pass			54
Fail			66

Question 3 – Table 3

Table 3: Percentages

Period Test result	1990–1999	2000–2004	2005–2013
Pass (%)	37·5	43·75	54·17
Fail (%)	62·5	56·25	45·83
Total (%)	100	100	100

Question 3 – Table 2 – spare copy

Table 2: Expected frequencies

Period Test result	1990–1999	2000–2004	2005–2013
Pass			54
Fail			66