

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

Further Mathematics
Advanced
PAPER 3B: Further Statistics 1

Data Booklet

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

| | | | | | |
|-----------------------------|--|--|--|--|--|
| Surname | | | | | |
| Other names | | | | | |
| Centre Number | | | | | |
| Candidate Number | | | | | |

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INSTRUCTIONS

There may be spare copies of some data sheets in case you need them.

**THIS DATA BOOKLET MUST BE
RETURNED WITH THE
ANSWER BOOKLET AT THE END OF
THE EXAMINATION.**

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Question 1

Table 1

| Number of female cubs | Observed number of litters |
|-----------------------|----------------------------|
| 0 | 10 |
| 1 | 33 |
| 2 | 33 |
| 3 | 15 |
| 4 | 9 |

Table 2

| Number of female cubs | Expected number of litters |
|-----------------------|----------------------------|
| 0 | 6·25 |
| 1 | r |
| 2 | s |
| 3 | r |
| 4 | 6·25 |

Question 2

| x | $P(X = x)$ |
|-----------|------------------------------|
| -5 | 0.3 |
| -1 | 0.25 |
| 0 | 0.1 |
| 5 | 0.15 |
| b | 0.2 |

Question 6

| v | $P(V = v)$ |
|-----|-----------------|
| 2 | $\frac{9}{25}$ |
| 3 | $\frac{12}{25}$ |
| 4 | $\frac{4}{25}$ |