

Paper Reference 8FM0–27
Pearson Edexcel
Level 3 GCE

Total Marks

Further Mathematics
Advanced Subsidiary
Further Mathematics options
27: Decision Mathematics 1
(Part of options D, F, H and K)

Thursday 17 May 2018 – Afternoon

Answer Book

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

Surname					
Other names					
Centre Number					
Candidate Number					

Read the instructions on the next page.

INSTRUCTIONS

**THIS ANSWER BOOK MUST BE RETURNED
WITH THE DIAGRAM BOOK AT THE END OF
THE EXAMINATION.**

Turn over

- 1. Refer to Diagram 1 and Diagram 2 in the Diagram Book.**

Answer lines continue on the next two pages.

[illegible]

Turn over

1. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

1. continued.

[illegible]

(Total 9 marks)

Turn over

2.

Minimum number of arcs:

Maximum number of arcs:

**(b) (i) Answer space and lines continue on the
next eleven pages.**

Turn over

2. (b) (i) continued.

Turn over

2. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

2. continued.

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Turn over

2. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

2. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

2. continued.

[illegible]

Turn over

2. continued.

[illegible]

Turn over

2. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

2. continued.

[illegible]

Turn over

2. continued.

[illegible]

Turn over

2. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

(Total 10 marks)

Turn over

3. Refer to Table 1, Diagram 3 and Diagram 4 in the Diagram Book.

Answer lines continue on the next four pages.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

3. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

3. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

3. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

3. continued.

(Total 10 marks)

Turn over

4. Refer to Diagram 5 in the Diagram Book.

Answer lines continue on the next seven pages.

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Turn over

4. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

4. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

4. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

4. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

4. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

4. continued.

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Turn over

4. continued.

(Total 11 marks)

TOTAL FOR DECISION MATHEMATICS 1 IS 40 MARKS

END OF PAPER
