

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

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**Pearson Edexcel International Advanced Level**

**Wednesday 14 January 2026**

Morning (Time: 1 hour 30 minutes)

Paper  
reference

**WST01/01**

**Mathematics**

**International Advanced Subsidiary/Advanced Level  
Statistics S1**

**You must have:**

Mathematical Formulae and Statistical Tables (Yellow), calculator

Total Marks

**Candidates may use any calculator permitted by Pearson regulations. Calculators must not have the facility for symbolic algebra manipulation, differentiation and integration, or have retrievable mathematical formulae stored in them.**

### Instructions

- Use **black** ink or ball-point pen.
- If pencil is used for diagrams/sketches/graphs it must be dark (HB or B).
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions and ensure that your answers to parts of questions are clearly labelled.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- You should show sufficient working to make your methods clear. Answers without working may not gain full credit.
- Values from the statistical tables should be quoted in full. If a calculator is used instead of the tables, the value should be given to an equivalent degree of accuracy.
- Inexact answers should be given to three significant figures unless otherwise stated.

### Information

- A booklet 'Mathematical Formulae and Statistical Tables' is provided.
- There are 7 questions in this question paper. The total mark for this paper is 75.
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.
- If you change your mind about an answer, cross it out and put your new answer and any working underneath.

Turn over ►

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1. The marks of a group of 31 students in a Statistics test are summarised by the stem and leaf diagram below.

Mark	Totals	Key: 2   6 represents 26 marks
1   8	(1)	
2   6	(1)	
3   2 4 7	(3)	
4   0 6 6 7 8 9	(6)	
5   0 0 1 2 3 5 6 7 9	(9)	
6   2 2 3 3 5 8	(6)	
7   2 4 8	(3)	
8   5	(1)	
9   0	(1)	

- (a) Find the median and the interquartile range of the marks of these students. (3)

An outlier is defined as a mark that is

**either** more than  $1.5 \times$  interquartile range above the upper quartile  
**or** more than  $1.5 \times$  interquartile range below the lower quartile

- (b) On the grid provided on page 3, draw a box plot to represent the marks of the students, indicating clearly any outliers. (5)

Three students asked for their marks to be checked.

- The mark for student A was changed from 47 to 43
- The mark for student B was changed from 49 to 43
- The mark for student C was changed from 90 to 94

- (c) Explain the effects that these three changes would have on the box plot drawn in part (b). (4)
- Show your calculations clearly
  - You do **not** need to draw the new box plot

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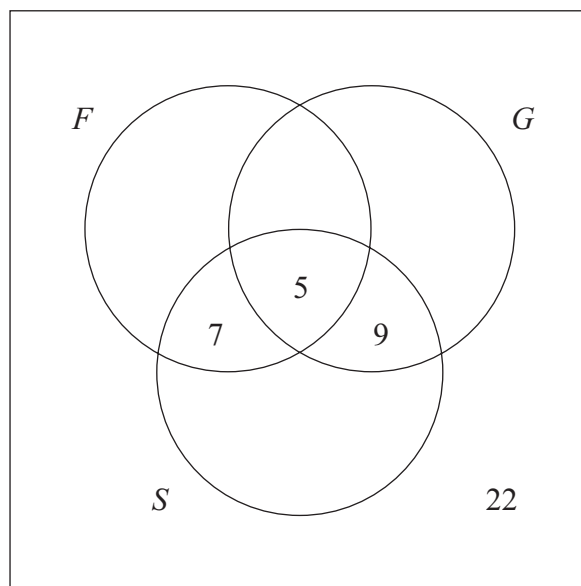






3. In a survey 120 people were each asked which of the countries France ( $F$ ), Germany ( $G$ ) and Spain ( $S$ ) they had visited.

The incomplete Venn diagram gives some information about the results of the survey.



A person from the survey is chosen at random.

- (a) Find the probability that

- (i) of these three countries, this person only visited France and Spain,  
(ii) this person did not visit any of these three countries.

(2)

Given that

- of the 52 people who had visited France, 9 also visited Germany
- $P(F \cup G) = \frac{41}{60}$

- (b) complete the Venn diagram.

(4)

- (c) Find

- (i)  $P(F' \cap G')$   
(ii)  $P(F \cap G | S)$

(3)

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