COMPUTER SCIENCE

PAPER 2: APPLICATION OF
COMPUTATIONAL THINKING

Data Book

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

Surname	
Other names	
Centre Number	
Candidate Number	

Pearson

Contents:
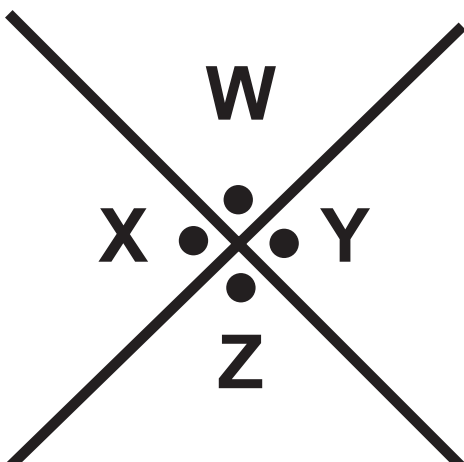
Page

Question 2

Pseudocode: Logic required to complete the program

```
1   FUNCTION checkPrime (pNumber)
2   BEGIN FUNCTION
3       IF pNumber = 1 THEN
4           check = False
5       ELSE
6           check = True
7           FOR count FROM 2 TO pNumber DO
8               IF pNumber MOD count = 0 THEN
9                   check = False
10              END IF
11          END FOR
12      END IF
13  RETURN check
14  END FUNCTION
15
16  SEND "Enter a number: " TO DISPLAY
17  RECEIVE number FROM (INTEGER) KEYBOARD
18  SET result TO checkPrime(number)
19
20  IF result = True THEN
21      SEND (number & " is a prime number") TO DISPLAY
22  ELSE
23      SEND (number & " is not a prime number") TO DISPLAY
24  END IF
```

Question 4 (b)

Figure 1: Pigpen cipher grid.

Question 4 (c)
Figure 1: The first stage of the encryption process.

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	H						Y		S				
		E				M				N			
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Question 5 (b) (i)

Table to show how the bubble sort

algorithm will sort the scores

3	2	10	8	1	9

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