



H10-test Spreadsheets and ICT (Higher): Test Pack

EDEXCEL 1ST0 · Calculator allowed · about 15 minutes

Total Marks

Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1** A student writes the following formula into a spreadsheet cell:

=SUM(B2:B9)

- (a) State what the equals sign (=) at the start of this entry tells the spreadsheet. (1)
- (b) State what the word SUM tells the spreadsheet to do. (1)
- (c) State what the part (B2:B9) tells the spreadsheet. (1)

(Total for Question 1 is 3 marks)

- 2 A courier records the time, in minutes, taken for each of 7 deliveries in a spreadsheet, as shown below. She wants cell B9 to show the mean delivery time, and cell B10 to show the median delivery time.

	A	B
1	Delivery	Time (minutes)
2	Delivery 1	18
3	Delivery 2	22
4	Delivery 3	15
5	Delivery 4	30
6	Delivery 5	21
7	Delivery 6	19
8	Delivery 7	25
9	Mean	
10	Median	

- (a) Write a spreadsheet formula, using a named function, that could be typed into cell B9 to calculate the mean of the seven delivery times in B2 to B8. (2)

- (b) Work out the value that would appear in cell B9, giving your answer correct to 1 decimal place. (2)

- (c) Write a spreadsheet formula, using a named function, that could be typed into cell B10 to calculate the median of the seven delivery times. (1)

- (d) Work out the value that would appear in cell B10. (1)

(Total for Question 2 is 6 marks)

- 3** A teacher enters the scores, out of 100, that 7 students achieved in a test into a spreadsheet, as shown below. The pass mark is 40. The formula =IF(B2≥40,"Pass","Fail") is typed into cell C2, and copied down to cell C8.

	A	B	C
1	Student	Score	Pass or Fail
2	Tariq	55	
3	Grace	38	
4	Oscar	40	
5	Nadia	62	
6	Callum	29	
7	Ruby	45	
8	Simone	40	

- (a) Write down the value that would appear in cell C3. (1)

- (b) Write down the value that would appear in cell C4. (1)

- (c) Write a formula, using the COUNTIF function, that would count how many of the 7 students scored 40 or more (that is, how many passed). (2)

- (d) Work out the value this formula would return. (1)

(Total for Question 3 is 5 marks)

Mark scheme · H10-test Spreadsheets and ICT (Higher): Test Pack

Question 1

- (a) **B1** shows the spreadsheet that the entry is a formula (a calculation), not plain text or a number
- (a) **Answer: It shows the spreadsheet that this is a formula (a calculation), not plain text or a number typed into the cell.**
- (b) **B1** add together (find the total of) the values in the given range of cells
- (b) **Answer: It tells the spreadsheet to add together (find the total of) the values in the range that follows.**
- (c) **B1** the range of cells to use in the calculation, from cell B2 to cell B9 inclusive
- (c) **Answer: It tells the spreadsheet which range of cells to use in the calculation, from cell B2 to cell B9 inclusive.**

Question 2

- (a) **B1** AVERAGE used as a named function, e.g. =AVERAGE(...)
- (a) **B1** correct range B2:B8
- (a) **Answer: =AVERAGE(B2:B8)**
- (b) **M1** $(18+22+15+30+21+19+25) / 7$, oe
- (b) **A1** 21.4 awrt
- (b) **Answer: 21.4**
- (c) **B1** =MEDIAN(B2:B8) oe
- (c) **Answer: =MEDIAN(B2:B8)**
- (d) **B1** 21 cao
- (d) **Answer: 21**

Question 3

- (a) **B1** Fail cao
- (a) **Answer: Fail**
- (b) **B1** Pass cao
- (b) **Answer: Pass**
- (c) **B1** COUNTIF used as a named function with a correct condition, e.g. =COUNTIF(...,"≥40")
- (c) **B1** correct range B2:B8
- (c) **Answer: =COUNTIF(B2:B8,"≥40")**
- (d) **B1** 5 cao
- (d) **Answer: 5**