HIGHER

2.4 Spreadsheets and ICT (Higher): 1-hour Pack

EDEXCEL 1ST0 · Calculator allowed · about 60 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The table shows information about the number of rooms in a house for 33 houses on a street.

Rooms	Frequency
1	12
2	6
3	9
4	5
5	1

(a) Work out the sum of the frequencies, and so confirm the number of items.

(b) Work out the median.

(c) Work out the mean. Give your answer to 2 decimal places if necessary.

(Total for Question 1 is 6 marks)

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2 A spreadsheet has these entries. Column A holds the labels, column B and column C hold the numbers, and row 1 is the heading row (not shown).

Row (A)	B: Hours	C: Rate
2: Lemons	12	4
3: Limes	14	15
4: Cherries	18	14
5: Grapes	14	10
6: Pears	14	6

Work out the value produced by each formula.

(a) =B3+C3

(b) =AVERAGE(B2:B6)

(c) =MAX(C2:C6)

(Total for Question 2 is 3 marks)

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3 A spreadsheet has these entries. Column A holds the labels, column B and column C hold the numbers, and row 1 is the heading row (not shown).

Row (A)	B: Week 1	C: Week 2
2: Pears	17	15
3: Apples	2	6
4: Limes	10	5
5: Grapes	12	2
6: Melons	4	6

Work out the value produced by each formula.

(a) =MAX(C2:C6)

(b) =SUM(B2:B6)

(c) =MIN(C2:C6)

(Total for Question 3 is 3 marks)

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4 The table shows information about the number of eggs in a nest for 29 nests inspected.

Eggs	Frequency
0	7
1	5
2	8
3	6
4	3

(a) Work out the sum of the frequencies, and so confirm the number of items.

(b) Write down the mode.

(c) Work out the mean. Give your answer to 2 decimal places if necessary.

(Total for Question 4 is 5 marks)

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5 A spreadsheet has these entries. Column A holds the labels, column B and column C hold the numbers, and row 1 is the heading row (not shown).

Row (A)	B: Price (pounds)	C: Quantity
2: Plums	7	2
3: Lemons	19	9
4: Apples	2	9
5: Melons	19	12
6: Pears	14	10

Work out the value produced by each formula.

(a) =MIN(C2:C6)

(b) =COUNTIF(B2:B6,">9")

(c) =B6*C6

(Total for Question 5 is 3 marks)

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6 A spreadsheet has these entries. Column A holds the labels, column B and column C hold the numbers, and row 1 is the heading row (not shown).

Row (A)	B: Price (pounds)	C: Quantity
2: Cherries	4	9
3: Pears	16	7
4: Lemons	4	4
5: Apples	14	2
6: Melons	8	5

Work out the value produced by each formula.

(a) =AVERAGE(B2:B6)

(b) =B3+C3

(c) =SUM(B2:B6)

(Total for Question 6 is 3 marks)

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7 The table shows information about the number of goals scored in a match for 28 matches.

Goals	Frequency
0	8
1	2
2	2
3	4
4	12

(a) Work out the median.

(b) Work out the mean. Give your answer to 2 decimal places if necessary.

(c) Work out the range.

(Total for Question 7 is 6 marks)

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8 A spreadsheet has these entries. Column A holds the labels, column B and column C hold the numbers, and row 1 is the heading row (not shown).

Row (A)	B: Week 1	C: Week 2
2: Melons	10	10
3: Limes	7	11
4: Plums	8	3
5: Lemons	16	11
6: Apples	10	8

Work out the value produced by each formula.

(a) =SUM(C2:C6)

(b) =AVERAGE(B2:B6)

(c) =MAX(C2:C6)

(Total for Question 8 is 3 marks)

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9 A spreadsheet has these entries. Column A holds the labels, column B and column C hold the numbers, and row 1 is the heading row (not shown).

Row (A)	B: Price (pounds)	C: Quantity
2: Cherries	7	14
3: Apples	17	14
4: Pears	13	13
5: Limes	17	6
6: Plums	16	14

Work out the value produced by each formula.

(a) =COUNTIF(B2:B6,">9")

(b) =AVERAGE(B2:B6)

(c) =B2*C2

(Total for Question 9 is 3 marks)

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10 The table shows information about the number of days absent in a term for 49 pupils.

Days absent	Frequency
0	12
1	10
2	7
3	9
4	11

(a) Work out the median.

(b) Work out the mean. Give your answer to 2 decimal places if necessary.

(c) Work out the range.

(Total for Question 10 is 6 marks)

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11 A spreadsheet has these entries. Column A holds the labels, column B and column C hold the numbers, and row 1 is the heading row (not shown).

Row (A)	B: Mark 1	C: Mark 2
2: Lemons	12	15
3: Cherries	2	13
4: Pears	18	3
5: Grapes	5	3
6: Melons	12	13

Work out the value produced by each formula.

(a) =B2*C2

(b) =COUNTIF(B2:B6,">12")

(c) =MAX(C2:C6)

(Total for Question 11 is 3 marks)

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12 The table shows information about the number of cars owned by a household for 17 households.

Number of cars	Frequency
1	9
2	1
3	3
4	3
5	1

(a) Work out the sum of the frequencies, and so confirm the number of items.
(b) Write down the mode.
(c) Work out the mean. Give your answer to 2 decimal places if necessary.

(Total for Question 12 is 5 marks)

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13 A spreadsheet has these entries. Column A holds the labels, column B and column C hold the numbers, and row 1 is the heading row (not shown).

Row (A)	B: Hours	C: Rate
2: Pears	18	8
3: Lemons	9	5
4: Limes	15	13
5: Melons	3	15
6: Cherries	10	7

Work out the value produced by each formula.

(a) =AVERAGE(B2:B6)

(b) =B6*C6

(c) =MIN(C2:C6)

(Total for Question 13 is 3 marks)

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14 The table shows information about the number of books read in a month for 35 students.

Books read	Frequency
0	2
1	6
2	9
3	3
4	5
5	10

(a) Write down the mode.

(b) Work out the median.

(c) Work out the mean. Give your answer to 2 decimal places if necessary.

(Total for Question 14 is 6 marks)

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Mark scheme · 2.4 Spreadsheets and ICT (Higher): 1-hour Pack

Question 1

33 cao	**B1**
identifies the position of the median (33 items, cumulative frequencies used)	**M1**
2 cao	**A1**
products of value and frequency formed (at least 3 correct)	**M1**
sum of products (76) divided by 33	**M1**
2.30 cao	**A1**

Answer: (a) 33; (b) 2; (c) 2.30

Question 2

29 cao	**B1**
14.4 cao	**B1**
15 cao	**B1**

Answer: (a) 29; (b) 14.4; (c) 15

Question 3

15 cao	**B1**
45 cao	**B1**
2 cao	**B1**

Answer: (a) 15; (b) 45; (c) 2

Question 4

29 cao	**B1**
2 cao	**B1**
products of value and frequency formed (at least 3 correct)	**M1**
sum of products (51) divided by 29	**M1**
1.76 cao	**A1**

Answer: (a) 29; (b) 2; (c) 1.76

Question 5

2 cao	**B1**
3 cao	**B1**
140 cao	**B1**

Answer: (a) 2; (b) 3; (c) 140

Question 6

9.2 cao	**B1**
23 cao	**B1**
46 cao	**B1**

Answer: (a) 9.2; (b) 23; (c) 46

Question 7

identifies the position of the median (28 items, cumulative frequencies used)	**M1**
3 cao	**A1**
products of value and frequency formed (at least 3 correct)	**M1**
sum of products (66) divided by 28	**M1**
2.36 cao	**A1**
4 cao	**B1**

Answer: (a) 3; (b) 2.36; (c) 4

Question 8

43 cao	**B1**
10.2 cao	**B1**
11 cao	**B1**

Answer: (a) 43; (b) 10.2; (c) 11

Question 9

4 cao	**B1**
14 cao	**B1**
98 cao	**B1**

Answer: (a) 4; (b) 14; (c) 98

Question 10

identifies the position of the median (49 items, cumulative frequencies used)	**M1**
2 cao	**A1**
products of value and frequency formed (at least 3 correct)	**M1**
sum of products (95) divided by 49	**M1**
1.94 cao	**A1**
4 cao	**B1**

Answer: (a) 2; (b) 1.94; (c) 4

Question 11

180 cao	**B1**
1 cao	**B1**
15 cao	**B1**

Answer: (a) 180; (b) 1; (c) 15

Question 12

17 cao	**B1**
1 cao	**B1**
products of value and frequency formed (at least 3 correct)	**M1**
sum of products (37) divided by 17	**M1**
2.18 cao	**A1**

Answer: (a) 17; (b) 1; (c) 2.18

Question 13

11 cao	**B1**
70 cao	**B1**
5 cao	**B1**

Answer: (a) 11; (b) 70; (c) 5

Question 14

5 cao	**B1**
identifies the position of the median (35 items, cumulative frequencies used)	**M1**
3 cao	**A1**
products of value and frequency formed (at least 3 correct)	**M1**
sum of products (103) divided by 35	**M1**
2.94 cao	**A1**

Answer: (a) 5; (b) 3; (c) 2.94

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