FOUNDATION

2.1 Spreadsheets and ICT (Foundation): 30-minute Pack

Total Marks

EDEXCEL 1ST0 · Calculator allowed · about 30 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 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: Melons	11	13
3: Cherries	18	13
4: Apples	20	9
5: Pears	8	7
6: Grapes	6	9

Work out the value produced by each formula.

(a) =MIN(C2:C6)

(b) =SUM(C2:C6)

(c) =SUM(B2:B6)

(Total for Question 1 is 3 marks)

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2 Here are the ages of club members in years recorded for 10 people. Valid values are whole numbers from 11 to 17 inclusive.

11, 17, 12, 17, 17, 14, 17, 999, 0, 13

(a) Write down the invalid values.
(b) Work out the mean of all 10 values, to 1 decimal place if needed.
(c) Work out the mean after the invalid values are removed, to 1 decimal place if needed.

(Total for Question 2 is 5 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: Cherries	20	9
3: Grapes	15	8
4: Limes	7	8
5: Melons	16	6
6: Plums	20	11

Work out the value produced by each formula.
(a) =B2*C2
(b) =COUNTIF(B2:B6,">8")
(c) =AVERAGE(B2:B6)

(Total for Question 3 is 3 marks)

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4 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	15	6
3: Cherries	8	14
4: Plums	14	15
5: Grapes	6	2
6: Limes	13	12

Work out the value produced by each formula.

(a) =MAX(B2:B6)-MIN(B2:B6)

(b) =AVERAGE(B2:B6)

(c) =MAX(C2:C6)

(Total for Question 4 is 3 marks)

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5 Here are the number of hours of sleep per night recorded for 10 people. Valid values are whole numbers from 3 to 12 inclusive.

120, 5, 8, 9, 1, 10, 3, 9, 8, 8

(a) Write down the invalid values.
(b) Work out the mean of all 10 values, to 1 decimal place if needed.
(c) Work out the mean after the invalid values are removed, to 1 decimal place if needed.

(Total for Question 5 is 5 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: Mark 1	C: Mark 2
2: Limes	13	2
3: Plums	16	12
4: Grapes	11	3
5: Melons	20	2
6: Cherries	9	5

Work out the value produced by each formula.
(a) =MIN(C2:C6)
(b) =AVERAGE(B2:B6)
(c) =B3+C3

(Total for Question 6 is 3 marks)

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7 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	3	15
3: Melons	8	14
4: Apples	5	14
5: Cherries	4	6
6: Limes	15	3

Work out the value produced by each formula.

(a) =SUM(B2:B6)

(b) =B3+C3

(c) =MIN(C2:C6)

(Total for Question 7 is 3 marks)

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8 Here are the heights of pupils in centimetres recorded for 10 people. Valid values are whole numbers from 130 to 190 inclusive.

153, 1900, 172, 170, 147, 134, 999, 186, 190, 169

(a) Write down the invalid values.

(b) Work out the mean of all 10 values, to 1 decimal place if needed.

(c) Work out the mean after the invalid values are removed, to 1 decimal place if needed.

(Total for Question 8 is 5 marks)

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Mark scheme · 2.1 Spreadsheets and ICT (Foundation): 30-minute Pack

Question 1

7 cao	**B1**
51 cao	**B1**
63 cao	**B1**

Answer: (a) 7; (b) 51; (c) 63

Question 2

invalid values 999, 0	**B1**
sum of all values divided by 10	**M1**
111.7 cao	**A1**
sum of valid values divided by 8	**M1**
14.8 cao	**A1**

Answer: (a) 999, 0; (b) 111.7; (c) 14.8

Question 3

180 cao	**B1**
4 cao	**B1**
15.6 cao	**B1**

Answer: (a) 180; (b) 4; (c) 15.6

Question 4

9 cao	**B1**
11.2 cao	**B1**
15 cao	**B1**

Answer: (a) 9; (b) 11.2; (c) 15

Question 5

invalid values 120, 1	**B1**
sum of all values divided by 10	**M1**
18.1 cao	**A1**
sum of valid values divided by 8	**M1**
7.5 cao	**A1**

Answer: (a) 120, 1; (b) 18.1; (c) 7.5

Question 6

2 cao	**B1**
13.8 cao	**B1**
28 cao	**B1**

Answer: (a) 2; (b) 13.8; (c) 28

Question 7

35 cao	**B1**
22 cao	**B1**
3 cao	**B1**

Answer: (a) 35; (b) 22; (c) 3

Question 8

invalid values 1900, 999	**B1**
sum of all values divided by 10	**M1**
422 cao	**A1**
sum of valid values divided by 8	**M1**
165.1 cao	**A1**

Answer: (a) 1900, 999; (b) 422; (c) 165.1

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