FOUNDATION

2.1 Spreadsheets and ICT (Foundation): 1-hour Pack

Total Marks

EDEXCEL 1ST0 · Calculator allowed · about 60 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: Lemons	18	14
3: Plums	8	11
4: Grapes	8	7
5: Apples	17	5
6: Cherries	7	12

Work out the value produced by each formula.

(a) =COUNTIF(B2:B6,">11")

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

(c) =AVERAGE(B2:B6)

(Total for Question 1 is 3 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: Week 1	C: Week 2
2: Cherries	15	12
3: Pears	13	12
4: Plums	5	3
5: Lemons	3	3
6: Apples	11	10

Work out the value produced by each formula.

(a) =SUM(C2:C6)

(b) =AVERAGE(B2:B6)

(c) =MAX(C2:C6)

(Total for Question 2 is 3 marks)

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3 Here are the shoe sizes recorded for 10 people. Valid values are whole numbers from 3 to 12 inclusive.

3, 5, 10, 5, 9, 9, 120, 8, 11, 9

(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 3 is 5 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: Hours	C: Rate
2: Melons	18	10
3: Pears	14	11
4: Limes	6	9
5: Apples	4	7
6: Grapes	9	5

Work out the value produced by each formula.
(a) =COUNTIF(B2:B6,">11")
(b) =AVERAGE(B2:B6)
(c) =B6*C6

(Total for Question 4 is 3 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: Melons	16	10
3: Lemons	5	15
4: Cherries	4	12
5: Pears	13	9
6: Plums	20	4

Work out the value produced by each formula.

(a) =COUNTIF(B2:B6,">10")

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

(c) =SUM(C2:C6)

(Total for Question 5 is 3 marks)

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

0, 15, 14, 12, 16, 15, 11, 13, 17, 15

(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 6 is 5 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: Price (pounds)	C: Quantity
2: Grapes	9	9
3: Limes	19	14
4: Pears	8	5
5: Lemons	7	2
6: Apples	16	13

Work out the value produced by each formula.
(a) =MAX(C2:C6)
(b) =COUNTIF(B2:B6,">12")
(c) =AVERAGE(B2:B6)

(Total for Question 7 is 3 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: Pears	12	2
3: Lemons	15	6
4: Plums	20	7
5: Melons	18	4
6: Cherries	17	12

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

(Total for Question 8 is 3 marks)

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9 Here are the number of hours of sleep per night recorded for 8 people. Valid values are whole numbers from 3 to 12 inclusive.

999, 9, 11, 6, 10, 12, 6, 7

(a) Write down the invalid values.
(b) Work out the mean of all 8 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 9 is 5 marks)

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10 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: Lemons	2	14
3: Pears	12	7
4: Cherries	15	12
5: Apples	18	13
6: Limes	14	2

Work out the value produced by each formula.
(a) =COUNTIF(B2:B6,">12")
(b) =SUM(B2:B6)
(c) =MAX(B2:B6)-MIN(B2:B6)

(Total for Question 10 is 3 marks)

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

11, -1, 14, 17, 3, 17, 16, 13, 11, 17

(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 11 is 5 marks)

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12 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: Apples	14	7
3: Plums	18	2
4: Lemons	10	11
5: Cherries	8	13
6: Limes	2	8

Work out the value produced by each formula.

(a) =MIN(C2:C6)

(b) =COUNTIF(B2:B6,">8")

(c) =AVERAGE(B2:B6)

(Total for Question 12 is 3 marks)

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13 Here are the number of hours of sleep per night recorded for 8 people. Valid values are whole numbers from 3 to 12 inclusive.

12, 11, 3, -1, 11, 3, 3, 12

(a) Write down the invalid values.
(b) Work out the mean of all 8 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 13 is 5 marks)

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14 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	13	2
3: Lemons	6	9
4: Plums	16	14
5: Melons	8	9
6: Apples	5	10

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

(Total for Question 14 is 3 marks)

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15 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: Grapes	4	7
3: Plums	10	4
4: Melons	15	2
5: Lemons	20	15
6: Cherries	10	11

Work out the value produced by each formula.
(a) =B6*C6
(b) =B2*C2
(c) =COUNTIF(B2:B6,">10")

(Total for Question 15 is 3 marks)

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16 Here are the number of hours of sleep per night recorded for 8 people. Valid values are whole numbers from 3 to 12 inclusive.

12, 6, 12, 4, 120, 6, 7, 0

(a) Write down the invalid values.
(b) Work out the mean of all 8 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 16 is 5 marks)

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Mark scheme · 2.1 Spreadsheets and ICT (Foundation): 1-hour Pack

Question 1

2 cao	**B1**
11 cao	**B1**
11.6 cao	**B1**

Answer: (a) 2; (b) 11; (c) 11.6

Question 2

40 cao	**B1**
9.4 cao	**B1**
12 cao	**B1**

Answer: (a) 40; (b) 9.4; (c) 12

Question 3

invalid values 120	**B1**
sum of all values divided by 10	**M1**
18.9 cao	**A1**
sum of valid values divided by 9	**M1**
7.7 cao	**A1**

Answer: (a) 120; (b) 18.9; (c) 7.7

Question 4

2 cao	**B1**
10.2 cao	**B1**
45 cao	**B1**

Answer: (a) 2; (b) 10.2; (c) 45

Question 5

3 cao	**B1**
16 cao	**B1**
50 cao	**B1**

Answer: (a) 3; (b) 16; (c) 50

Question 6

invalid values 0	**B1**
sum of all values divided by 10	**M1**
12.8 cao	**A1**
sum of valid values divided by 9	**M1**
14.2 cao	**A1**

Answer: (a) 0; (b) 12.8; (c) 14.2

Question 7

14 cao	**B1**
2 cao	**B1**
11.8 cao	**B1**

Answer: (a) 14; (b) 2; (c) 11.8

Question 8

16.4 cao	**B1**
31 cao	**B1**
82 cao	**B1**

Answer: (a) 16.4; (b) 31; (c) 82

Question 9

invalid values 999	**B1**
sum of all values divided by 8	**M1**
132.5 cao	**A1**
sum of valid values divided by 7	**M1**
8.7 cao	**A1**

Answer: (a) 999; (b) 132.5; (c) 8.7

Question 10

3 cao	**B1**
61 cao	**B1**
16 cao	**B1**

Answer: (a) 3; (b) 61; (c) 16

Question 11

invalid values -1, 3	**B1**
sum of all values divided by 10	**M1**
11.8 cao	**A1**
sum of valid values divided by 8	**M1**
14.5 cao	**A1**

Answer: (a) -1, 3; (b) 11.8; (c) 14.5

Question 12

2 cao	**B1**
3 cao	**B1**
10.4 cao	**B1**

Answer: (a) 2; (b) 3; (c) 10.4

Question 13

invalid values -1	**B1**
sum of all values divided by 8	**M1**
6.8 cao	**A1**
sum of valid values divided by 7	**M1**
7.9 cao	**A1**

Answer: (a) -1; (b) 6.8; (c) 7.9

Question 14

26 cao	**B1**
9.6 cao	**B1**
2 cao	**B1**

Answer: (a) 26; (b) 9.6; (c) 2

Question 15

110 cao	**B1**
28 cao	**B1**
2 cao	**B1**

Answer: (a) 110; (b) 28; (c) 2

Question 16

invalid values 120, 0	**B1**
sum of all values divided by 8	**M1**
20.9 cao	**A1**
sum of valid values divided by 6	**M1**
7.8 cao	**A1**

Answer: (a) 120, 0; (b) 20.9; (c) 7.8

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