FOUNDATION

1.6 Place Value: 30-minute Pack

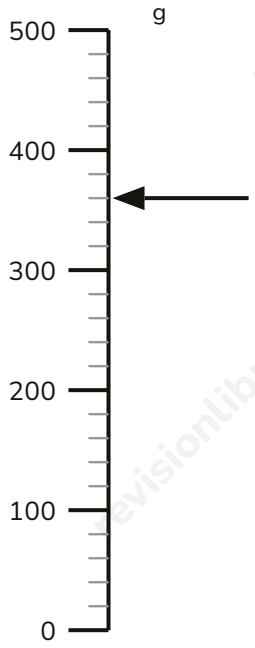
EDEXCEL 1MA1 · Calculator allowed · about 30 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 The diagram shows a mass scale used to weigh a bag of flour.
Write down the mass shown by the arrow.



(Total for Question 1 is 1 mark)

2 Write down the value of the digit 6 in the number 3,702,563.

(Total for Question 2 is 1 mark)

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3 Here are four digit cards: 9, 1, 7, 4. Use all four cards to make the largest possible 4-digit number and the smallest possible 4-digit number. Work out the difference between them.

(Total for Question 3 is 3 marks)

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4 Write these numbers in order of size, starting with the smallest: 3.27, 4.043, 9.83, 6.331

(Total for Question 4 is 2 marks)

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5 The number of people at a concert was 638.

(a) Round 638 to the nearest 10. **(1)**

(b) Round 638 to the nearest 100. **(1)**

(Total for Question 5 is 2 marks)

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6 Insert the correct symbol, < , > or = , between each pair of numbers.

(a) 0.407 ___ 0.47 **(1)**

(b) -15 ___ -9 **(1)**

(c) 5.20 ___ 5.2 **(1)**

(Total for Question 6 is 3 marks)

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7 Chidi says that in the number 60,802 the digit 8 has a value of 8000.
Explain the mistake Chidi has made, and write down the correct value of the digit 8.

(Total for Question 7 is 2 marks)

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8 n is an integer.
$-3 < n \leq 2$
Write down all the possible values of n.

(Total for Question 8 is 2 marks)

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9 Chloe buys three items costing £4.85, £12.99 and £7.20.
By rounding each amount to the nearest pound, work out an estimate for the total cost.

(Total for Question 9 is 3 marks)

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10 Divide 12,300 by 100. Give your answer as a number.

(Total for Question 10 is 2 marks)

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11 A number y rounds to 6.40 when rounded to 2 decimal places. Give the possible range of values of y.

(Total for Question 11 is 2 marks)

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Mark scheme · 1.6 Place Value: 30-minute Pack

Question 1

360 (g) cao **B1**

Answer: 360 g

Question 2

60 cao **B1**

Answer: 60

Question 3

9741 seen **B1**

1479 seen **B1**

8262 cao **B1**

Answer: 8262

Question 4

attempts to compare place by place or writes with equal decimal places **M1**

3.27, 4.043, 6.331, 9.83 cao **A1**

Answer: 3.27, 4.043, 6.331, 9.83

Question 5

(a) 640 cao **B1**

(a) Answer: 640

(b) 600 cao **B1**

(b) Answer: 600

Question 6

(a) < cao **B1**

(a) Answer: <

(b) < cao **B1**

(b) Answer: <

(c) = cao **B1**

(c) Answer: =

Question 7

correct explanation that Chidi has used the wrong column (the digit 8 is in the hundreds column, not the thousands column) oe **B1**

800 cao **B1**

Answer: Chidi is wrong; the digit 8 has a value of 800, not 8000, because it is in the hundreds column.

Question 8

at least 3 correct values listed, or one end-value correctly excluded/included oe **M1**

-2, -1, 0, 1, 2 cao **A1**

Answer: -2, -1, 0, 1, 2

Question 9

rounds each amount correctly to the nearest pound: 5, 13, 7 oe **M1**

dep adds the three rounded amounts **M1**

25 (pounds) cao, ft from correctly rounded values **A1**

Answer: £25 estimate

Question 10

divide by 100 or shift decimal 2 places left oe **M1**

123 cao **A1**

Answer: 123

Question 11

identify lower and upper round boundaries 6.395 and 6.405 oe **M1**

$6.395 \leq y < 6.405$ cao **A1**

Answer: $6.395 \leq y < 6.405$

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