FOUNDATION

1.6D Place Value: Fluency and Exam Drill

Total Marks

EDEXCEL Edexcel 1MA1 · Calculator allowed · about 40 minutes

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 Work out 8 tens + 5 ones.

(Total for Question 1 is 1 mark)

2 Write as an integer: 3 hundreds + 2 tens + 7 ones.

(Total for Question 2 is 1 mark)

3 What is the value of the digit 6 in the number 5,604?

(Total for Question 3 is 1 mark)

4 What is the digit in the hundredths place of 12.708?

(Total for Question 4 is 1 mark)

5 Round 3.276 to 2 decimal places.

(Total for Question 5 is 1 mark)

6 Work out 0.345 multiplied by 10.

(Total for Question 6 is 1 mark)

7 Divide 4.2 by 100. Give your answer as a decimal.

(Total for Question 7 is 1 mark)

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8 Write 5.032 as a number of thousandths.

(Total for Question 8 is 1 mark)

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9 Work out 6.789 multiplied by 1000.

(Total for Question 9 is 2 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 Priya first multiplies 0.056 by 10 and then multiplies the result by 100. Carry out both steps.

(a) Work out 0.056 multiplied by 10. **(1)**

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(b) Now multiply your answer to part (a) by 100. **(1)**

.....

(Total for Question 11 is 2 marks)

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12 Work out 4,075 divided by 1000. Give your answer as a decimal.

(Total for Question 12 is 2 marks)

13 A piece of string is 0.678 m long. Work out its length in centimetres.

(Total for Question 13 is 2 marks)

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14 Work out 45,600 divided by 1000.

(Total for Question 14 is 2 marks)

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15 Work out 3,450 divided by 1000. Give your answer as a decimal.

(Total for Question 15 is 2 marks)

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16 Write 4.006 as a number of thousandths.

(Total for Question 16 is 2 marks)

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17 A number x rounds to 3.7 when rounded to 1 decimal place. Give the possible range of x.

(Total for Question 17 is 2 marks)

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18 A number x is multiplied by 100 to give y. The value y, rounded to 2 decimal places, is 45.67. Work out the possible range of x.

(Total for Question 18 is 3 marks)

Mark scheme · 1.6D Place Value: Fluency and Exam Drill

Question 1

- **B1** 85 cao
- **Answer: 85**

Question 2

- **B1** 327 cao
- **Answer: 327**

Question 3

- **B1** 600 cao
- **Answer: 600**

Question 4

- **B1** 0 cao
- **Answer: 0**

Question 5

- **B1** 3.28 cao
- **Answer: 3.28**

Question 6

- **B1** 3.45 cao
- **Answer: 3.45**

Question 7

- **B1** 0.042 cao
- **Answer: 0.042**

Question 8

- **B1** 5032 thousandths cao
- **Answer: 5032 thousandths**

Question 9

- **M1** multiply by 1000 or shift decimal point 3 places to the right oe
- **A1** 6789 cao
- **Answer: 6789**

Question 10

- **M1** divide by 100 or shift decimal 2 places left oe
- **A1** 123 cao
- **Answer: 123**

Question 11

- (a) **B1** 0.56 cao
- **(a) Answer: 0.56**
- (b) **B1** 56 cao
- **(b) Answer: 56**

Question 12

- **M1** divide by 1000 or shift decimal 3 places left oe
- **A1** 4.075 cao
- **Answer: 4.075**

Question 13

- **M1** multiply metres by 100 to get centimetres oe
- **A1** 67.8 cm cao
- **Answer: 67.8 cm**

Question 14

- **M1** divide by 1000 or shift decimal 3 places left oe
- **A1** 45.6 cao
- **Answer: 45.6**

Question 15

- **M1** divide by 1000 or shift decimal 3 places left oe
- **A1** 3.45 cao
- **Answer: 3.45**

Question 16

- **M1** multiply by 1000 or shift decimal 3 places to the right oe
- **A1** 4006 thousandths cao
- **Answer: 4006 thousandths**

Question 17

- **M1** identify lower and upper round boundaries 3.65 and 3.75 oe
- **A1** $3.65 \leq x < 3.75$ cao
- **Answer: $3.65 \leq x < 3.75$**

Question 18

- **M1** y is in the interval $45.665 \leq y < 45.675$ (rounding to 2 dp) oe
- **M1** divide the interval by 100 to find x oe
- **A1** $0.45665 \leq x < 0.45675$ cao
- **Answer: $0.45665 \leq x < 0.45675$**