FOUNDATION

2.12 Probability (Foundation): 10-minute Pack

EDEXCEL 1MA1 · Calculator allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 A fair six-sided dice, numbered 1 to 6, is rolled once.

(a) Write down the probability that the dice lands on the number 3. **(1)**

.....

(b) Write down the probability that the dice lands on a number less than 3. **(1)**

.....

(Total for Question 1 is 2 marks)

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2 A letter is chosen at random from the word MATHEMATICS.

(a) Work out the probability that the letter chosen is M. **(1)**

.....

(b) Work out the probability that the letter chosen is a vowel. **(1)**

.....

(Total for Question 2 is 2 marks)

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3 This question is about probability.



(a) Put these words in order of probability, starting with the least likely. **(1)**
unlikely certain evens impossible likely

(b) A fair spinner has 4 equal sections. Only one section is yellow. On the probability scale, mark with a cross (X) the probability that the spinner lands on yellow. **(1)**

(c) On the same scale, mark with a circle (O) the probability that the spinner does not land on yellow. **(1)**

(Total for Question 3 is 3 marks)

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4 The probability that a biased spinner lands on red is 0.2. The spinner is spun 300 times. Work out an estimate for the number of times the spinner lands on red.

(Total for Question 4 is 2 marks)

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Mark scheme · 2.12 Probability (Foundation): 10-minute Pack

Question 1

(a) 1/6 oe **B1**

(a) Answer: 1/6

(b) 1/3 oe (accept 2/6) **B1**

(b) Answer: 1/3

Question 2

(a) 2/11 oe **B1**

(a) Answer: 2/11

(b) 4/11 oe **B1**

(b) Answer: 4/11

Question 3

(a) impossible, unlikely, evens, likely, certain (all five in the correct order) **B1**

(a) Answer: impossible, unlikely, evens, likely, certain

(b) cross one quarter of the way along the scale (at 0.25), oe **B1**

(b) Answer: 0.25 (one quarter of the way along the scale)

(c) circle three quarters of the way along the scale (at 0.75), oe, ft their (b) **B1**

(c) Answer: 0.75 (three quarters of the way along the scale)

Question 4

0.2 x 300 **M1**

60 cao **A1**

Answer: 60

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