



S18-10min Probability Basics and the Probability Scale: 10-minute Pack

EDEXCEL 1ST0 · Calculator allowed · about 10 minutes

Total Marks

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Name: _____ Date: ____ / ____ / ____

Answer ALL questions. Show all your working.

- 1** A fair six-sided dice is rolled once. Using one of the words impossible, unlikely, evens, likely or certain, describe the probability that it lands on a number less than 7.

(Total for Question 1 is 1 mark)

- 2** A fair spinner has 4 equal sections, numbered 1 to 4. It is spun once. Write down the probability, as a decimal, that it lands on 5.

(Total for Question 2 is 1 mark)

- 3** A fair coin is tossed once. Write down, in words, the probability that it lands on heads.

(Total for Question 3 is 1 mark)

- 4** A weather app shows a 5% chance of rain tomorrow. Using one of the words impossible, unlikely, evens, likely or certain, describe this likelihood.

(Total for Question 4 is 1 mark)

- 5** A spinner has 8 equal sections, numbered 1 to 8. Work out the probability that the spinner lands on a number greater than 5.

(Total for Question 5 is 2 marks)

6 Write a probability of $\frac{3}{10}$ as (i) a decimal and (ii) a percentage.

(Total for Question 6 is 2 marks)

7 Kayden tosses two fair coins. List, systematically, all the possible outcomes, then find the probability that both coins land on the same side (both heads or both tails).

(Total for Question 7 is 3 marks)

Mark scheme · S18-10min Probability Basics and the Probability Scale: 10-minute Pack

Question 1

- **B1** certain cao
- **Answer: Certain**

Question 2

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

Question 3

- **B1** evens cao
- **Answer: Evens**

Question 4

- **B1** unlikely cao
- **Answer: Unlikely**

Question 5

- **M1** identifies 6, 7 and 8 as the numbers greater than 5 (3 favourable outcomes)
- **A1** $\frac{3}{8}$ oe cao
- **Answer: $\frac{3}{8}$**

Question 6

- **B1** 0.3 cao
- **B1** 30% cao
- **Answer: 0.3 and 30%**

Question 7

- **M1** all 4 outcomes listed systematically: HH, HT, TH, TT
- **M1** identifies the 2 favourable outcomes, HH and TT
- **A1** $\frac{1}{2}$ oe cao
- **Answer: $\frac{1}{2}$**