Probability of a single event

Grade 2 | Foundation | 5 questions, 20 marks

GCSE Statistics topic practice

Name: _____ **Date:** _____ **Score:** _____ **/ 20**

1 Hana rolls a fair six-sided dice numbered 1 to 6.

a. Write down the probability that the dice lands on 4. (1)

b. Write down the probability that the dice lands on an even number. (1)

c. Write down the probability that the dice lands on a number greater than 4. (1)

(3 marks)

2 A jar contains 20 sweets. 8 are strawberry, 7 are lemon and 5 are mint.

Aisha takes one sweet from the jar at random.

a. Write down the probability that the sweet is lemon. (1)

b. Work out the probability that the sweet is **not** mint. Give your answer as a fraction in its simplest form. (2)

c. Write down the probability that the sweet is orange. (1)

(4 marks)

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3 The diagram shows a fair spinner. It has 8 equal sections.

Jess spins the spinner once.

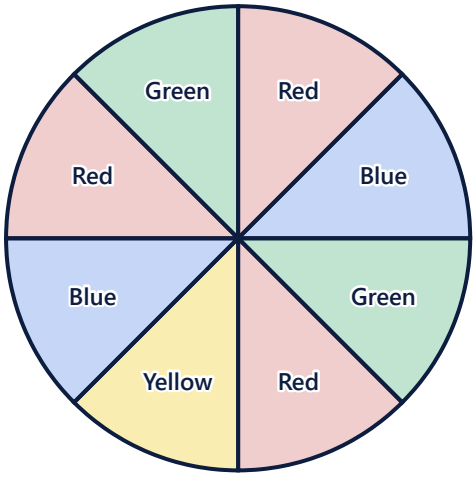
a. Write down the colour the spinner is least likely to land on. (1)

b. Write down the probability that the spinner lands on Blue. (1)

c. Work out the probability that the spinner lands on Red or Green. (1)

d. Jess says, "There are 4 colours, so the probability of Yellow is $\frac{1}{4}$."

Explain why Jess is wrong. (1)



(4 marks)

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4 A box contains only milk, dark and white chocolates. Sofia takes one chocolate from the box at random.

The table shows the probability of taking each type of chocolate.

Type	Milk	Dark	White
Probability	0.45	0.35	

a. Work out the probability that Sofia takes a white chocolate. (2)

b. Work out the probability that Sofia does **not** take a milk chocolate. (1)

c. Which type of chocolate is there most of in the box? Give a reason for your answer. (1)

(4 marks)

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5 200 tickets are sold for a school raffle. One ticket is picked at random to win the prize.

a. Amir buys 10 tickets.
Work out the probability that Amir wins the prize. Give your answer as a fraction in its simplest form. (2)

b. The probability that Beth wins the prize is $\frac{3}{40}$.
Work out the number of tickets Beth bought. (2)

c. Carl buys 100 tickets. He says, "I am certain to win the prize."
Explain why Carl is wrong. (1)

(5 marks)

End of questions | Total 20 marks

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