

**FOUNDATION TIER
MINI PRACTICE EXAM 5**



**NON-CALCULATOR
20 MINUTES ALLOWED**

1.
A bowl contains 14 ready salted crisps, 6 cheese and onion crisps and 4 salt and vinegar crisps.

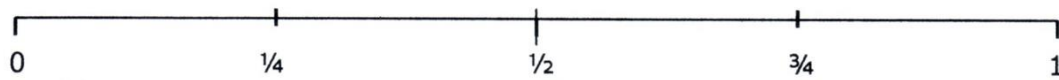
Adrian is going to pick a crisp at random from the bowl.

(a) Circle the word that describes the probability of picking a ready salted crisp.

Impossible Unlikely Evens Likely Certain

(1)

(b) Mark on the probability scale the probability of picking a cheese and onion crisp.



(1)

(c) Work out the probability of picking a crisp that is not salt and vinegar, giving your answer in its simplest terms.

(1)

2.
The table below shows the temperatures, in degrees Celsius, in four cities on Saturday and Sunday.

	Copenhagen	Barcelona	Rome	Moscow
Saturday	-1°C	15°C	10°C	-3°C
Sunday	2°C	22°C	16°C	0°C

(a) Work out the mean temperature of the four cities on Sunday.

(2)

(b) What was the difference in temperature between Rome and Moscow on Saturday?

(1)

The formula below converts degrees Celsius (C) into degrees Fahrenheit (F).

$$F = 2C + 30$$

(c) What was the temperature in Barcelona on Sunday, in degrees Fahrenheit?

(2)

3.

Billy went to a car park and counted the colours of each of the cars.
The results are shown in the below frequency table.

Colour	Frequency
White	15
Black	8
Red	7
Blue	7
Yellow	1
Green	2

(a) How many cars were in the car park in total?

(1)

(b) If Billy chose a car at random, what would be the probability that it is black?
Give your answer in its simplest form.

(2)

Billy also noted how many of the cars in the car park were hatchbacks.
25% of the cars were hatchbacks.

(c) How many cars in the car park were not hatchbacks?

(2)

4.

(a) Reflect Shape A in the line $x = 5$ and label this Shape B.

(b) Translate Shape A using the vector $\begin{pmatrix} -7 \\ 1 \end{pmatrix}$ and label this Shape C.

(2)

(c) Enlarge Shape D with scale factor 2 using $(-9,9)$ as the centre of enlargement and label this Shape E.

(3)

