**Relative Frequency GREEN**

1) Simon records the colour of cars going past his house for an hour.

|  |  |
| --- | --- |
| Colour | Frequency |
| Blue | 5 |
| Red | 4 |
| Yellow | 1 |
| White | 7 |
| Black | 3 |

a) What is the probability the next car will be

i) blue ii) red iii) Not black

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

b) How many Red cars would you expect if

i) 100 cars went past ii) 60 cars went past

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

2) Sammy throws a drawing pin 200 times and records how it lands.

|  |  |
| --- | --- |
| Pin up | 160 |
| Pin down | 40 |

a) What is the probability the pin will land

i) pin up? ii) pin down

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

b) How many pin ups would you expect if the pin was thrown

i) 80 times ii) 320 times iii) 400 times

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

3) A group of children are asked to write for their favourite food, and child is picked at random.

|  |  |
| --- | --- |
| Favourite Food | Number of people |
| Chinese | 20 |
| Pizza | 16 |
| Mexican | 18 |

a) What is the probability the person

i) liked Chinese? ii) Didn’t like Mexican best.

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

b) How many people would you expect to like pizza if

i) 100 people were asked ii) 250 people were asked

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

iii) 1000 people were asked? iv) 460 people were asked?

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

**Relative Frequency AMBER**

1) Simon records the colour of cars going past his house for an hour.

|  |  |
| --- | --- |
| Colour | Frequency |
| Blue | 5 |
| Red | 4 |
| Yellow | 1 |
| White | 7 |
| Black | 3 |

a) What is the probability the next car will be

i) blue ii) red iii) Not black

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Multiply the number of trials by the probability.

b) How many Red cars would you expect if

i) 100 cars went past ii) 60 cars went past

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

2) Sammy throws a drawing pin 200 times and records how it lands.

|  |  |
| --- | --- |
| Pin up | 160 |
| Pin down | 40 |

a) What is the probability the pin will land

i) pin up? ii) pin down

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Multiply the number of trials by the probability.

b) How many pin ups would you expect if the pin was thrown

i) 80 times ii) 320 times iii) 400 times

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

3) A group of children are asked to write for their favourite food, and child is picked at random.

|  |  |
| --- | --- |
| Favourite Food | Number of people |
| Chinese | 20 |
| Pizza | 16 |
| Mexican | 18 |

a) What is the probability the person

i) liked Chinese? ii) Didn’t like Mexican best.

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Multiply the number of trials by the probability.

b) How many people would you expect to like pizza if

i) 100 people were asked ii) 250 people were asked

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

iii) 1000 people were asked? iv) 460 people were asked?

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

**Relative Frequency RED**

1) Simon records the colour of cars going past his house for an hour.

|  |  |
| --- | --- |
| Colour | Frequency |
| Blue | 5 |
| Red | 4 |
| Yellow | 1 |
| White | 7  There were 20 cars altogether. |
| Black | 3 |

a) What is the probability the next car will be

i) blue ii) red iii) Not black

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Multiply the number of trials by the probability.

b) How many Red cars would you expect if

i) 100 cars went past ii) 60 cars went past

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

2) Sammy throws a drawing pin 200 times and records how it lands.

There were 200 pins altogether.

|  |  |
| --- | --- |
| Pin up | 160 |
| Pin down | 40 |

a) What is the probability the pin will land

i) pin up? ii) pin down

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Multiply the number of trials by the probability.

b) How many pin ups would you expect if the pin was thrown

i) 80 times ii) 320 times iii) 400 times

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

3) A group of children are asked to write for their favourite food, and child is picked at random.

|  |  |
| --- | --- |
| Favourite Food | Number of people |
| Chinese | 20 |
| Pizza | 16 |
| Mexican | 18 |

There were 54 people asked altogether.

a) What is the probability the person

i) liked Chinese? ii) Didn’t like Mexican best.

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

Multiply the number of trials by the probability.

b) How many people would you expect to like pizza if

i) 100 people were asked ii) 250 people were asked

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_

iii) 1000 people were asked? iv) 460 people were asked?

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_