

Statistical Methods – Checkpoint Primary Math

1.

Youssef thinks that the most common colour for a front door is white. He collects data for front doors on his walk to school. Here are his results.

Front door colour	Frequency
Green	7
Red	5
White	8
Blue	6
Black	6
Other	3

He wants to represent his data using a diagram.

Draw a ring around the most appropriate diagram for his data.

Venn diagram

scatter graph

bar chart

line graph

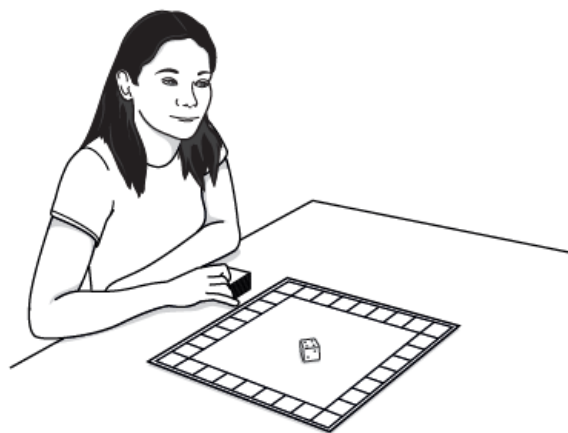
[1]

2.

Samira is playing a board game.

She rolls a fair six-sided dice numbered 1 to 6

She wants to find how many times she is likely to roll the dice before she gets a 6



She uses a computer simulation to roll a dice 100 times.

Here are her results.

Number of rolls to get a 6	Frequency
1	16
2	14
3	13
4	9
more than 4	48

Complete **each** sentence with the correct number.

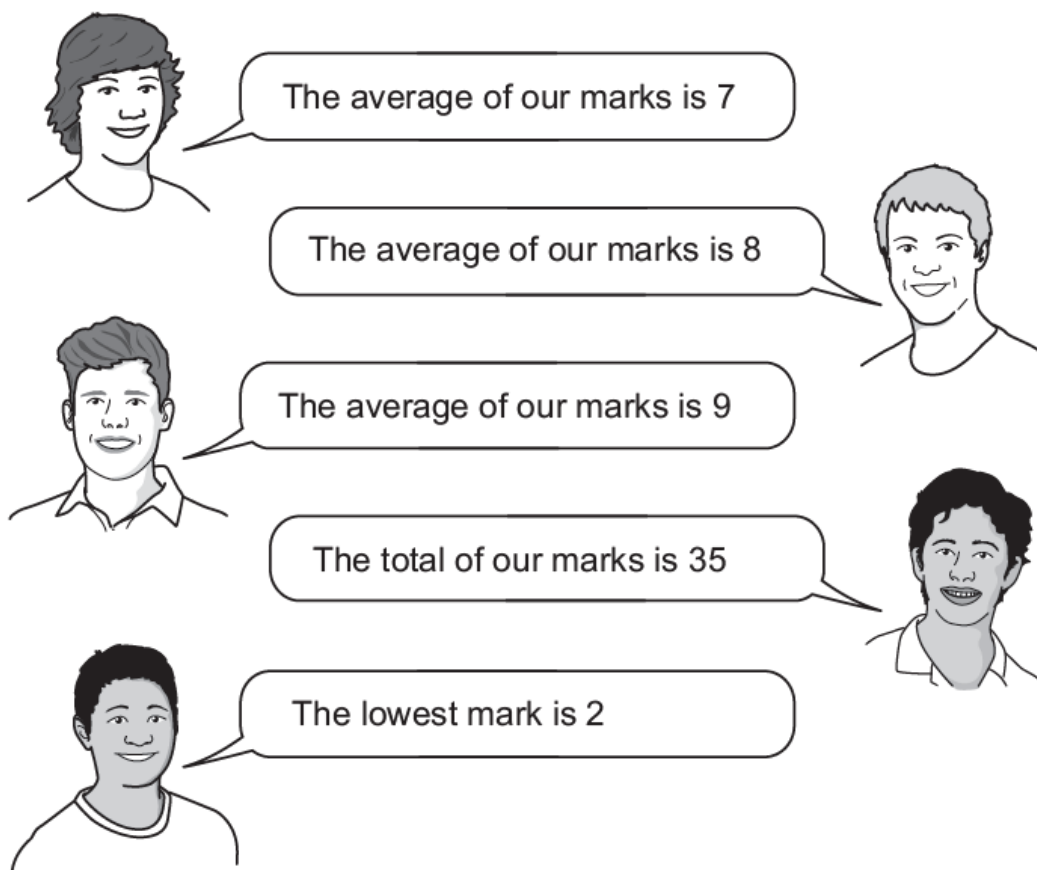
Samira is likely to get a 6 after rolls approximately 1 out of 10 times.

There is approximately a % chance that Samira will roll the dice more than 4 times to get a 6

[2]

3.

Five children each score a mark on a spelling test.
Mode, median and mean are all types of average.



All five children are correct.

Write the **five** marks the children score.

..... [2]

4.

Mia has 20 apples.
 She counts the number of seeds in each apple.
 She shows her data in a frequency table.
 She groups the data in **equal** intervals.

Number of seeds	Frequency
0 – 2	4
3 – 5	7
	8
	1

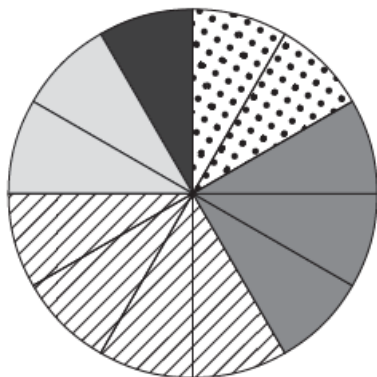
Complete her frequency table.

[1]

5.

Hassan asks the children in Class 6 which type of film they like to watch.
 He draws a pie chart showing the data he collects.

Types of film children in Class 6 like to watch



Key	
Type of film	
Adventure	
Cartoons	
Comedy	
Fantasy	
Fairy tales	

(a) Write the **two** types of film the same number of children like to watch.

..... and [1]

(b) 12 of the children like to watch comedy films.

Write the number of children who like to watch cartoons.

..... [1]

6.

Yuri does seven science tests.
He scores **three different** marks.
His median mark is less than his mode.

Write a number in each box to show the **seven** marks that Yuri could score.

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[1]

7.

Pierre and Chen want to find out which car colour is the most common in their town.

They collect data for some of the cars in their town.

Here is the data they collect.

Car colour	Frequency
White	34
Grey	38
Red	27
Blue	31
Black	16
Other	31

(a) Pierre says,

‘Grey is definitely the **most** common car colour in our town.’

Explain why Pierre could be correct.

.....
 [1]

(b) Chen says,

‘You cannot be certain which is the most common car colour in our town,
 but grey appears to be a common car colour.’

Explain why Chen could be correct.

.....
 [1]