

interactive practice papers

BOOSTER WORKBOOK

Statistics S4

Probability *

* Not assessed at KS2

For more interactive questions on this topic visit www.methodmaths.com

Here is a spinner which is a regular octagon.

1

Write 1, 2 or 3 in each section of the spinner so that 1 and 2 are equally likely to come up and 3 is the least likely to come up.



2 marks

Here are two spinners, A and B.

Each one is a regular hexagon.



For each statement, put a **tick** (\checkmark) if it is **true**. Put a **cross** (\mathbf{x}) if it is **not true**.

Scoring '	'1'	is more likely on A than on B.	
Scoring '	'2'	is more likely on A than on B.	
Scoring '	'3'	is as equally likely on A as on B.	

Zara spins both spinners. The score on A is added to the score on B. She says,

'The sum of the scores on both spinners is <u>certain</u> to be less than 7'.

Is she correct? Circle Yes or No.

Ø	Yes	/	No
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3

Here are the cards.

3



4

4

Dan has a bag of seven counters numbered **1 to 7** Abeda has a bag of twenty counters numbered **1 to 20**

Each chooses a counter from their own bag without looking.

For each statement, put a tick (\checkmark) if it is **true**. Put a cross (\mathbf{x}) if it is **not true**.

Dan is **more likely** than Abeda to choose a **'5'**

They are both **equally likely** to choose **a number less than 3**

Dan is **more likely** than Abeda to choose an **odd number**.

Abeda is less likely than Dan to choose a '10'

2 marks



Look at these statements.

	For each one put a tick (\checkmark) if it is correct . Put a cross (\varkappa) if it is not correct .	
Ŋ	'4' is the most likely score.	
	'2' and '4' are equally likely scores.	
	Odd and even scores are equally likely .	
	A score of '3' or more is as likely as a score of less than '3'.	

2 marks



Hassan spins the pointer on each spinner.

He adds his two scores together.

For each statement put a tick (✓) to show if it is **certain**, **possible** or **impossible**.

One has been done for you.

ß		certain	possible	impossible	
Ŋ	The total will be more than 15		\checkmark		
	The total will be an even number.				
	The total will be less than 6				
	The score on A will be less than the score on B.			2 n	narks