# method maths 

## interactive practice papers

## BOOSTER WORKBOOK

# Statistics S4 

## Probability *

1 Here is a spinner which is a regular octagon.
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.


Each one is a regular hexagon.


A


B

For each statement, put a tick $(\boldsymbol{\Omega})$ 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 $B$. $\square$
Scoring ' 3 ' is as equally likely on $A$ as on $B$. $\square$

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 certain to be less than 7'.

## Is she correct? <br> Circle Yes or No.

Explain how you know.

3 Sapna makes up a game using seven cards.
Here are the cards.


Josh picks a card without looking.

If Josh picks an odd number then Sapna scores a point.
If Josh picks an even number then Josh scores a point.

Is this a fair game?
Circle Yes or No.

## Explain how you know.

$\qquad$
$\qquad$
$\qquad$

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. $\square$

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

5 Here is a square spinner.


Look at these statements.

For each one put a tick $(\checkmark)$ if it is correct.
Put a cross $(x)$ if it is not correct.
' 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 '.


A


B

Hassan spins the pointer on each spinner.
He adds his two scores together.

For each statement put a tick $(\checkmark)$ to show if it is certain, possible or impossible.

One has been done for you.


