

# Y6 SATs

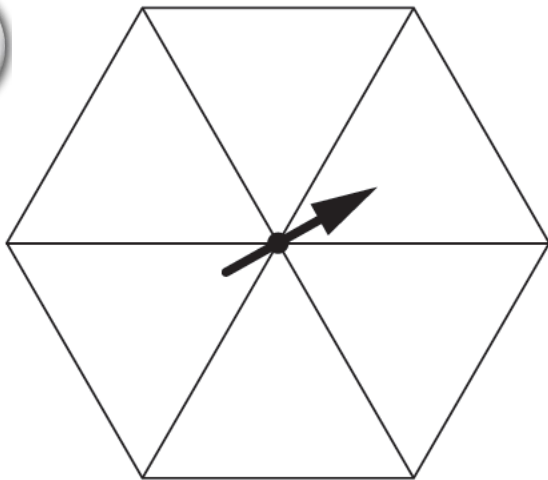
# Probability BOOSTER

Help Code : 048

2013A KS2 Q18

Here is a spinner.

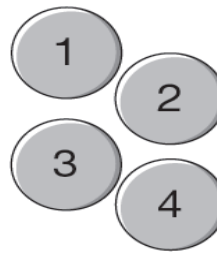
Write a whole number in each section of the spinner so that it is **certain** you will get a number less than 4 and it is **impossible** you will get an even number.



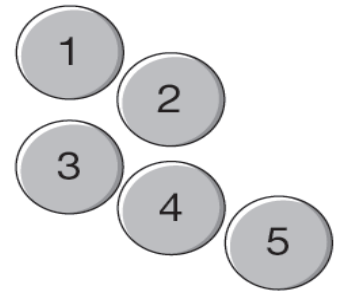
2013A KS2 Q25



Chen and Megan each have a set of numbered counters.



Chen



Megan

They each take one of their own counters without looking.

Chen says,

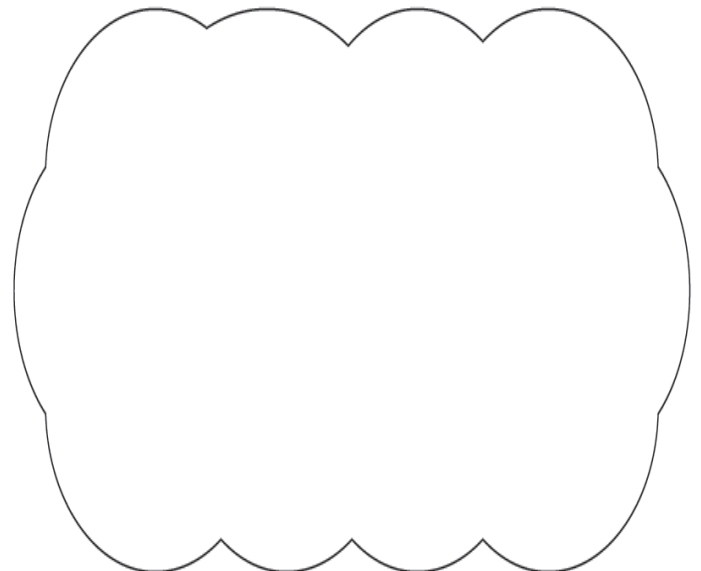
*'I am more likely than Megan to get a 4'*

Is Chen correct?  
Circle **Yes** or **No**.



Yes / No

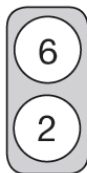
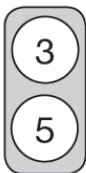
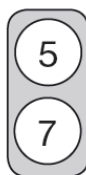
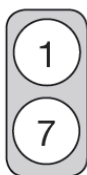
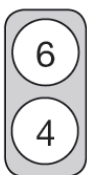
Explain how you know.



2009A KS2 Q15



Each of these cards has two numbers on it.



Stefan chooses one card without looking.

He adds the two numbers together.

What is the **most likely** total of the numbers on his card?



2005A KS2 Q14

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.



Yes / No

Explain how you know.



2002A KS2 Q21



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 (✓) if it is **true**.  
Put a cross (✗) 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

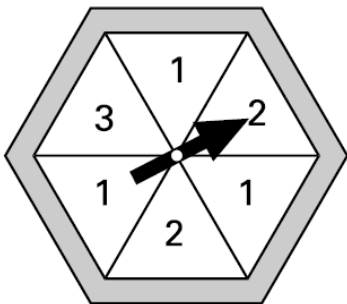
Dan is **more likely** than Abeda to choose an **odd number**.

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

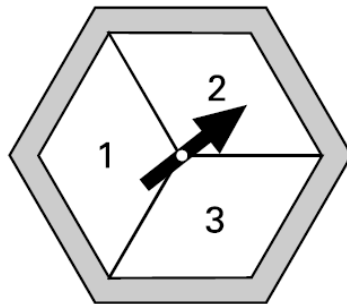
2001A KS2 Q15

Here are two spinners, A and B.

Each one is a regular hexagon.



A



B

For each statement, put a **tick** (✓) if it is **true**.  
Put a **cross** (✗) 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 certain to be less than 7'.**

Is she correct?  
Circle Yes or No.



Explain how you know.



Yes / No



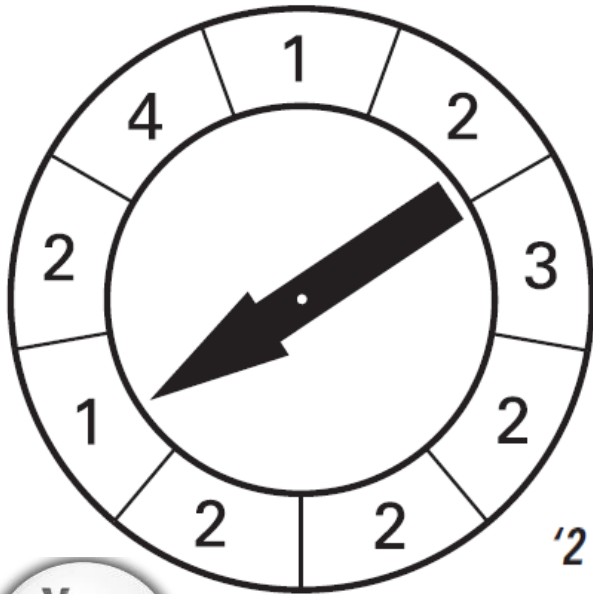
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2000A KS2 Q14

This spinner is divided into **nine** equal sections.



Which **two different numbers** on the spinner are equally likely to come up?



and
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Meera says,

*'2 has a greater than even chance of coming up'.*

Explain why she is correct.



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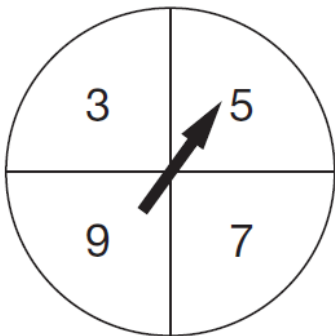
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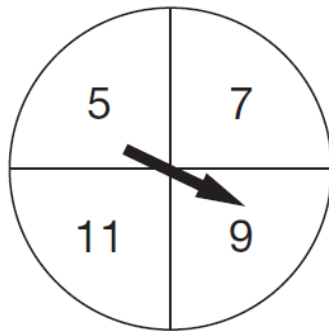


2007A KS2 Q23

Here are two spinners, A and B.



A



B

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.



The total will be more than 15

certain

possible

impossible

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.

