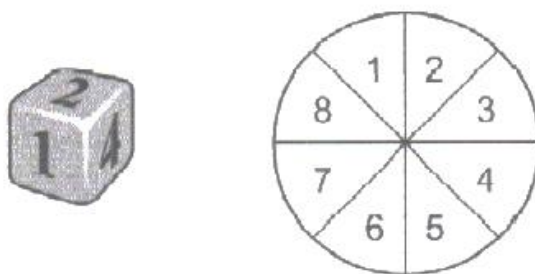
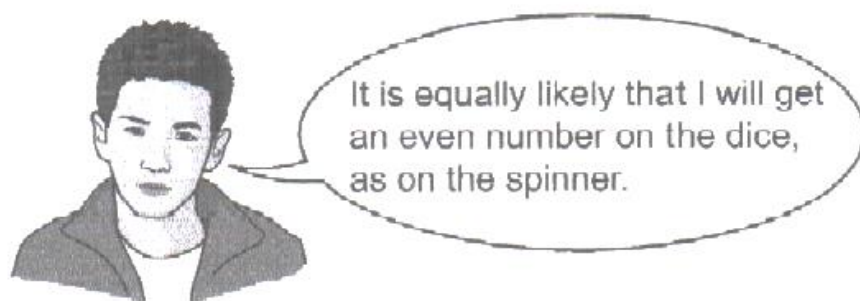


Probability – 2024 Checkpoint Primary Math**1. 2024/Paper 1_stage 6/No.17**

Carlos has a fair dice and a spinner divided into eight equal parts.



Carlos says,



Tick (✓) to show if Carlos is correct.

Yes

☒

No

☐

Explain how you know.

The number of odd and even numbers on the dice is the same and the number of odd and even numbers on the spinner is also the same.

[1]

2. 2024/Paper 1_stage 6/No.20

Here is a set of digit cards.



Ahmed picks one digit card at random.

Draw a line to match each event to the correct probability.

Event	Probability
Ahmed picks the number 4	1 in 9 chance
Ahmed picks an even number	1 in 3 chance
Ahmed picks a multiple of 3	4 in 9 chance

Even numbers = 2, 4, 6, 8

Multiple of 3 = 3, 6, 9
3 in 9 chance, so
1 in 3 chance.

[1]

3. 2024/Paper 2_stage 6/No.11

Carlos rolls a fair six-sided dice.

Carlos says,

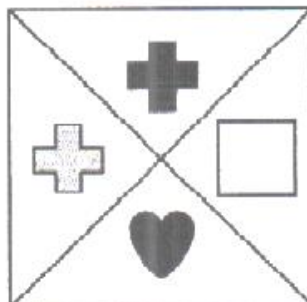
'I am less likely to roll a 6 than any of the other numbers on the dice.'

Explain why Carlos is wrong.

Because the dice is fair, Carlos is equally likely to roll any number from 1 to 6. [1]

4. 2024/Paper 2_stage 6/No.28

Here is a picture of a spinner.



Pierre spins the spinner once.

Tick (✓) to show if the pairs of events about the spinner are mutually exclusive or **not** mutually exclusive.

Pairs of events about the spinner	Mutually exclusive	Not mutually exclusive
It lands on a black shape and it lands on a white shape.	✓	
It lands on a black shape and it lands on a square.	✓	
It lands on a black shape and it lands on a heart.		✓
It lands on a black shape and it lands on a grey shape.	✓	

Mutually exclusive events are events that cannot occur at the same time.

[1]