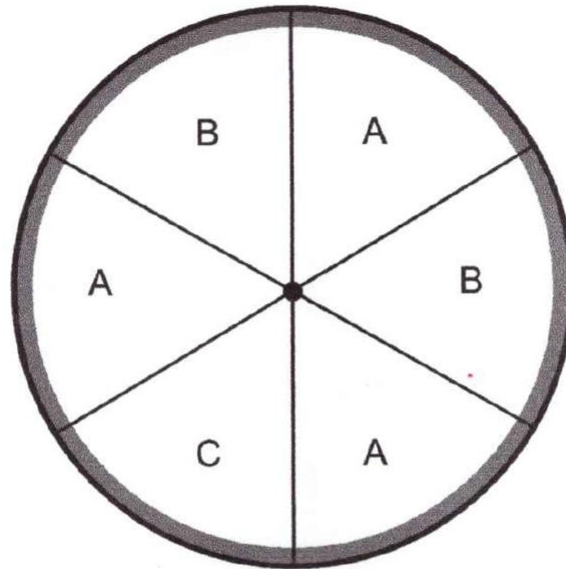


Probability – 2025 Checkpoint Primary Math Stage 6

1. 2/No.22

(a) Here is a spinner with six equal sections.

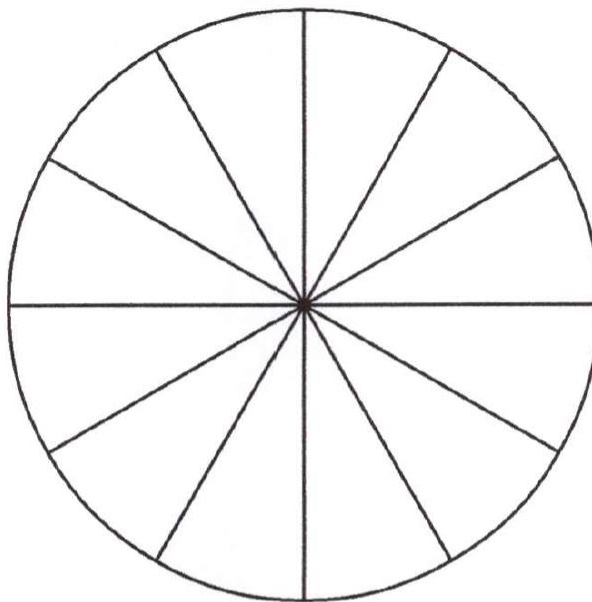


Write the chance of spinning an A.

Total chances = 6

Chances of spinning an A = $\frac{3}{6}$
 $= \frac{1}{2}$ 1 out of 2 [1]

(b) Here is a different spinner with 12 equal sections.



Shade the spinner so that there is a 25% chance of spinning an **unshaded** section.

$$\text{Total Sections} = 12$$

$$25\% \text{ of } 12$$

$$= \frac{25}{100} \times 12$$

$$= \frac{1}{4} \times 12$$

$$= \underline{\underline{3}}$$

$$\text{Unshaded} = 3$$

$$\text{Shaded} = 12 - 3$$

$$= \underline{\underline{9}}$$

[1]

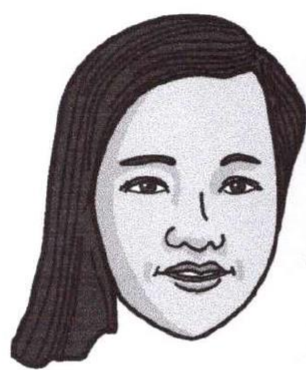
2. 2/No.24

Safia has some balls in a bag.

The balls in the bag are either yellow or green or white.

She has the **same number** of yellow balls as green balls.

Safia says,



I have a 50% chance
of picking a white ball.

$$P(\text{White}) = 50\% = \frac{1}{2}$$

$$P(\text{Green} \rightarrow \text{yellow}) = 50\%$$

Write the chance that Safia picks a **yellow** ball.

$$\text{Probability (chances yellow)} = \frac{50\%}{2}$$

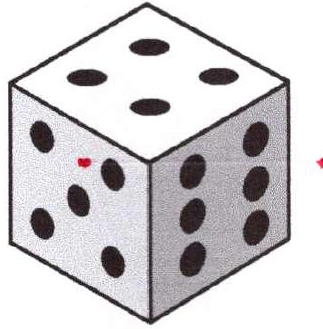
$$100\% - 50\% = 50\% = \frac{50\%}{2} = 25\%$$

$$\text{Total chances} = 100\% = 1 \quad \underline{\underline{25}}$$

..... % [1]

3. 2/No.30

Yuri rolls a fair dice.



Here is a list of events.

Event	Description of event
A	He rolls a 1
B	He rolls a 6
C	He rolls an even number.
D	He rolls a number less than 3

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

Pair of events	Mutually exclusive	Not mutually exclusive
A and B	✓	
A and D		✓
C and D		✓

Mutually exclusive Means two things cannot happen the same time.

[1]

Not Mutually Means two things can exist at same time.