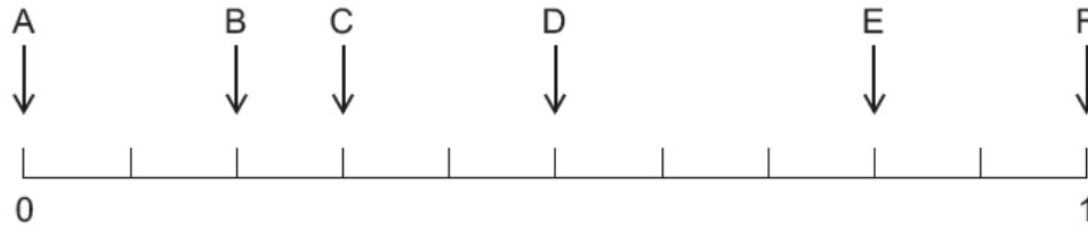


P21- Probability Scale

OCR

4 Robert has a bag containing ten sweets.
4 are red, 3 are green, 2 are yellow and 1 is orange.
Robert takes a sweet from the bag without looking.

Created by W Neill



(a) Which arrow shows the probability he takes a sweet which is

(i) green,

(a)(i) [1]

(ii) blue?

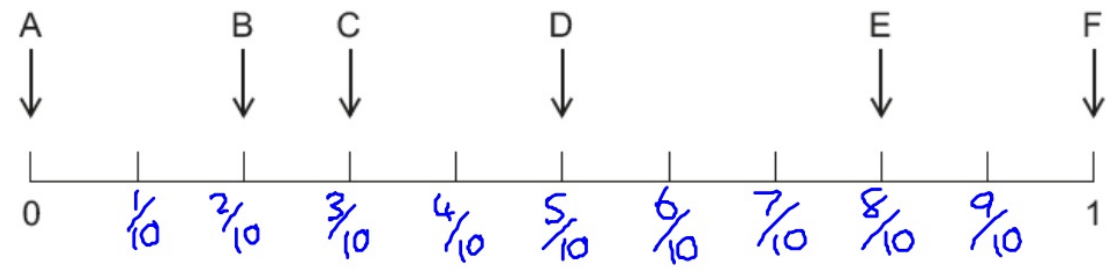
(ii) [1]

(b) Work out the probability that Robert takes a sweet that is **not** orange.

4 Robert has a bag containing ten sweets.
4 are red, 3 are green, 2 are yellow and 1 is orange.
Robert takes a sweet from the bag without looking.

3

10



(a) Which arrow shows the probability he takes a sweet which is

(i) green,

$\frac{3}{10}$

(a)(i) C [1]

(ii) blue?

$\frac{0}{10}$

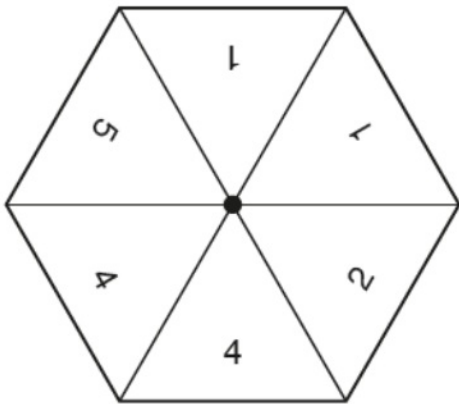
(ii) A [1]

(b) Work out the probability that Robert takes a sweet that is **not** orange.

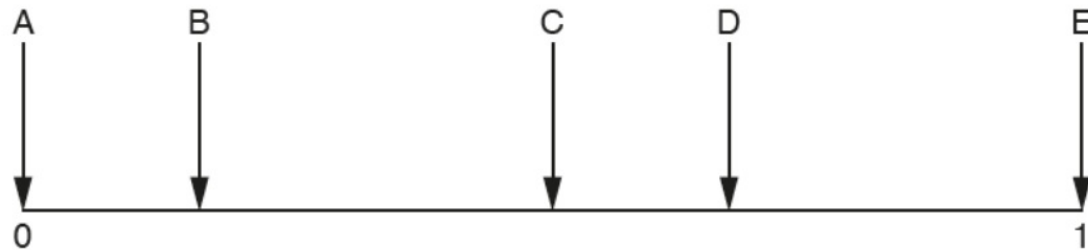
$\frac{9}{10}$ 0.9 ✓

- 1 A fair spinner has six sides.
They are labelled 1, 1, 2, 4, 4, 5.

Created by W Neill



The diagram shows a probability scale.



Which arrow shows the probability of

(a) scoring a 2,

(a)[1]

(b) scoring a number less than 6,

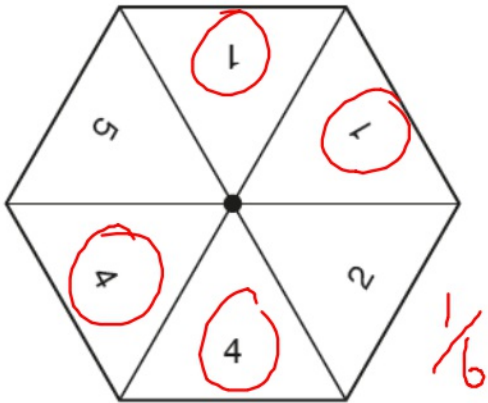
(b)[1]

(c) scoring a 1 or a 4?

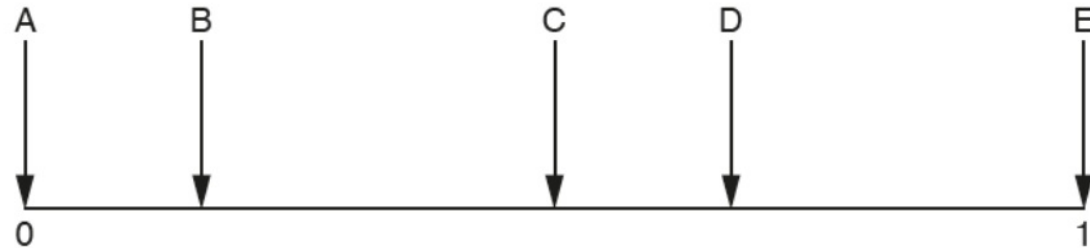
(c)[1]

- 1 A fair spinner has six sides.
They are labelled 1, 1, 2, 4, 4, 5.

Created by W Neill



The diagram shows a probability scale.



$$\frac{4}{6} = \frac{2}{3}$$

Which arrow shows the probability of

- (a) scoring a 2,

(a) **B** [1]

- (b) scoring a number less than 6,

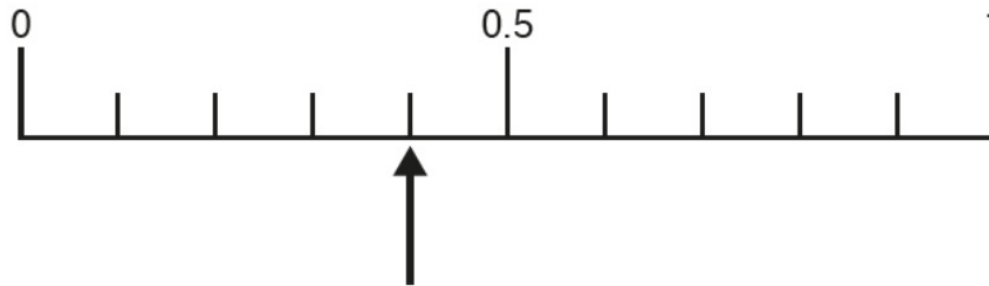
(b) **E** [1]

- (c) scoring a 1 or a 4?

(c) **D** [1]

- 5 A fair spinner has five sides.
Each side is labelled **A** or **B**.

P22 This diagram shows a probability scale.



The arrow shows the probability that the spinner lands on an **A**.

(a) Circle the word that best describes this probability.

Likely

Impossible

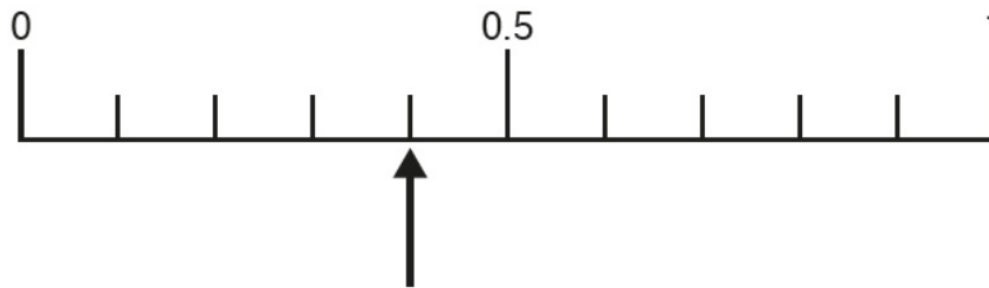
Unlikely

Certain

[1]

- 5 A fair spinner has five sides.
Each side is labelled **A** or **B**.

P22 This diagram shows a probability scale.



The arrow shows the probability that the spinner lands on an **A**.

(a) Circle the word that best describes this probability.

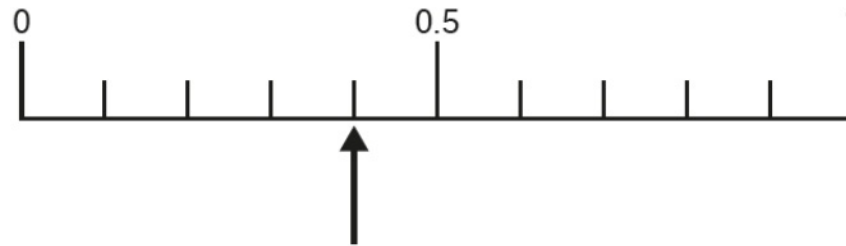
Likely

Impossible

Unlikely

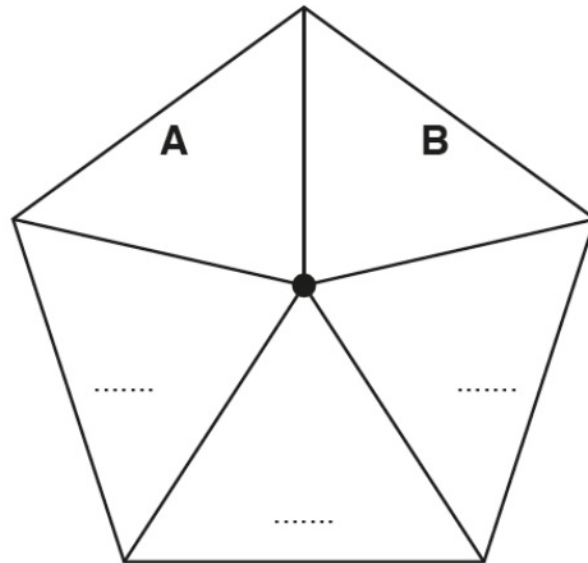
Certain

[1]



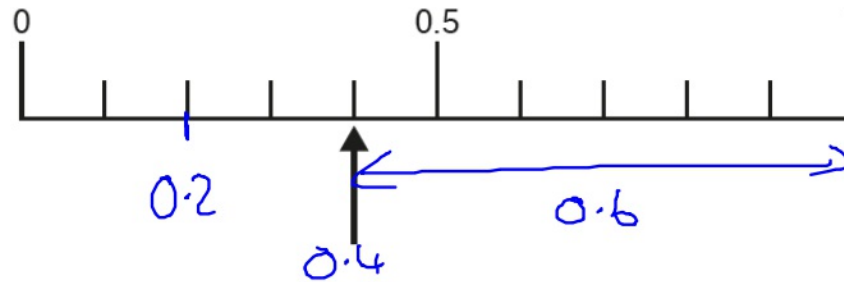
The arrow shows the probability that the spinner lands on an **A**.

(b) Here is the spinner with two sides labelled.



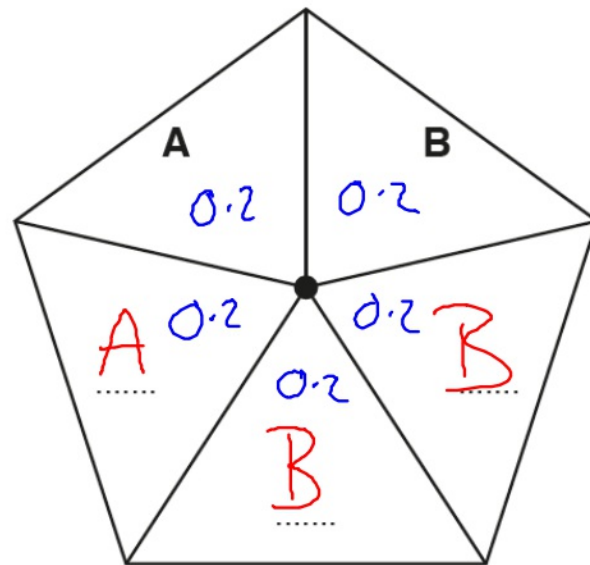
Label the other sides with **A** or **B** to give the correct probability of landing on an **A**.

[2]



The arrow shows the probability that the spinner lands on an **A**.

(b) Here is the spinner with two sides labelled.



0.2

= 1

Label the other sides with **A** or **B** to give the correct probability of landing on an **A**.

[2]

Edexcel

3 The probability of an event is shown by the cross (×) on the probability scale.



Write down an estimate for the probability of the event.

.....

(Total for Question 3 is 1 mark)

- 3 The probability of an event is shown by the cross (×) on the probability scale.



Write down an estimate for the probability of the event.

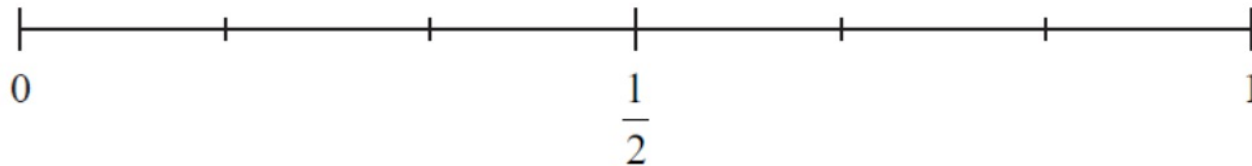
$\frac{1}{2}$ or 0.5

(Total for Question 3 is 1 mark)

4 Lukas has a fair ordinary dice.

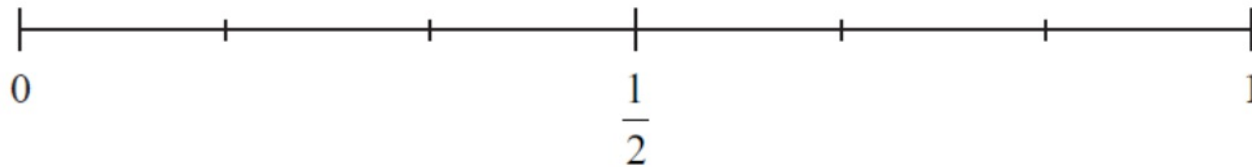
P22 Lukas rolls the dice once.

(a) On the probability scale below, mark with a cross (×) the probability that Lukas gets an odd number.



(1)

(b) On the probability scale below, mark with a cross (×) the probability that Lukas gets the number 2



(1)

4 Lukas has a fair ordinary dice.

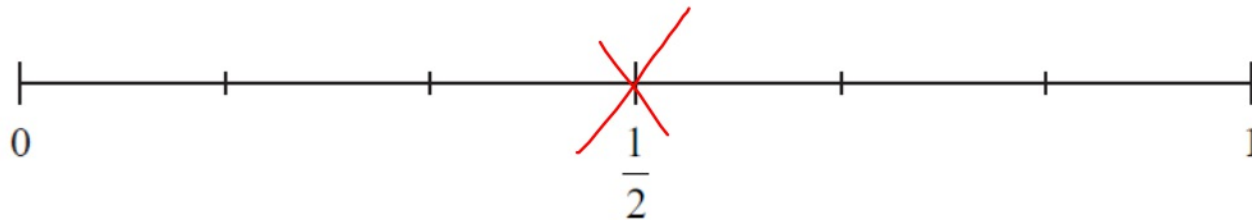
P22 Lukas rolls the dice once.

① 2 ③ 4 ⑤ 6

(a) On the probability scale below, mark with a cross (×) the probability that Lukas gets an odd number.

$$\frac{3}{6}$$

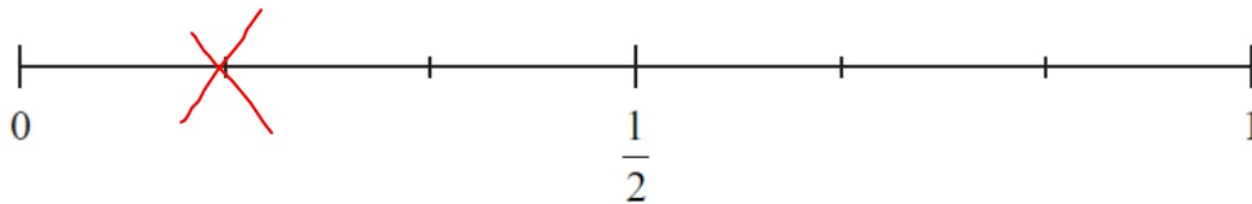
$$\frac{1}{2}$$



(1)

(b) On the probability scale below, mark with a cross (×) the probability that Lukas gets the number 2

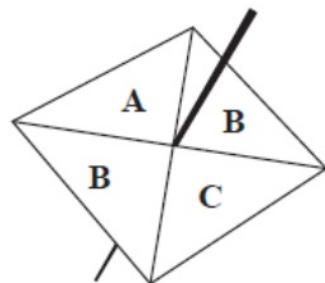
$$\frac{1}{6}$$



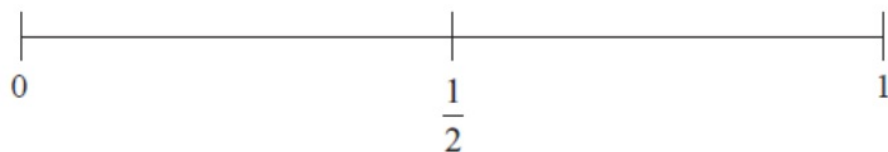
(1)

6 Sammy spins a fair 4-sided spinner.

Video created by W Neill

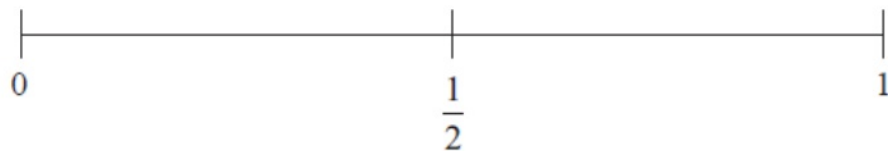


- (i) On the probability scale, mark with a cross (×) the probability that the spinner will land on **B**.



(1)

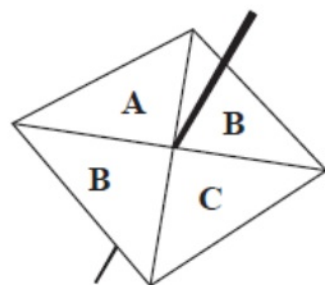
- (ii) On the probability scale, mark with a cross (×) the probability that the spinner will land on **F**.



(1)

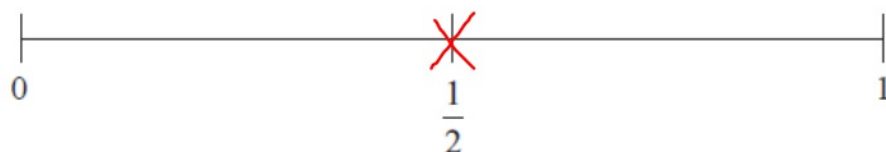
6 Sammy spins a fair 4-sided spinner.

Video created by W Neill



$$\frac{2}{4} = \frac{1}{2}$$

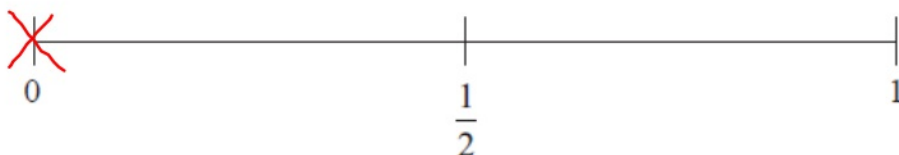
- (i) On the probability scale, mark with a cross (×) the probability that the spinner will land on **B**.



(1)

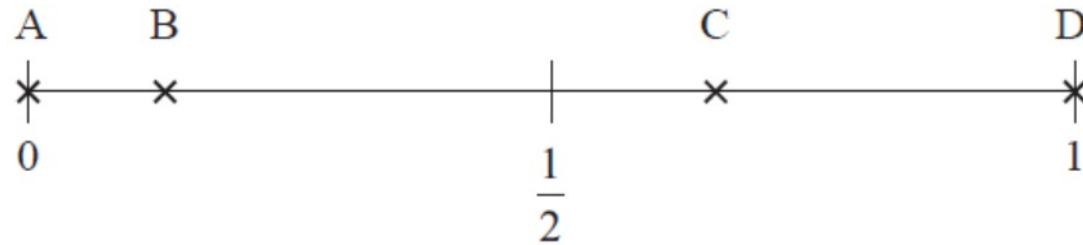
- (ii) On the probability scale, mark with a cross (×) the probability that the spinner will land on **F**.

$\frac{0}{4}$



(1)

- 7 Here is a probability scale.
It shows the probability of each of the events A, B, C and D.



- (a) Write down the letter of the event that is certain.

P22

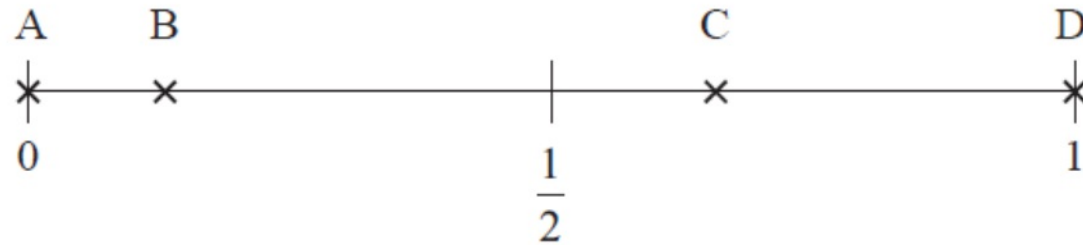
.....
(1)

- (b) Write down the letter of the event that is unlikely.

P22

.....
(1)

- 7 Here is a probability scale.
It shows the probability of each of the events A, B, C and D.



- (a) Write down the letter of the event that is certain.

P22

D

(1)

- (b) Write down the letter of the event that is unlikely.

P22

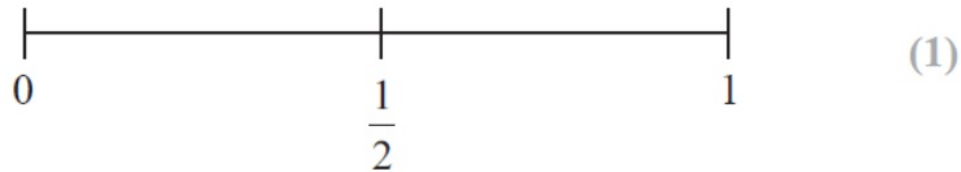
B

(1)

6 An ordinary fair dice is thrown once.

(a) On the probability scale below, mark with a cross (\times) the probability that the dice lands on an odd number.

P22



(b) Write down the probability that the dice lands on a number greater than 4

P21

.....
(1)

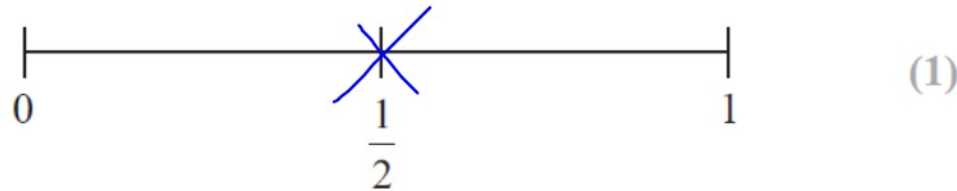
6 An ordinary fair dice is thrown once.

1 2 3 4 5 6

(a) On the probability scale below, mark with a cross (×) the probability that the dice lands on an odd number.

P22

$$\frac{3}{6} = \frac{1}{2}$$



(b) Write down the probability that the dice lands on a number greater than 4

P21

$$\frac{2}{6}$$

(1)

AQA