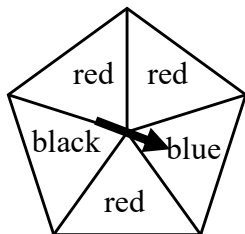




1 The diagram shows a fair spinner.



Kalid spins the arrow on the spinner once.

impossible unlikely evens likely certain

(a) Write down the word from the box that best describes the likelihood the arrow will land on

(i) black,

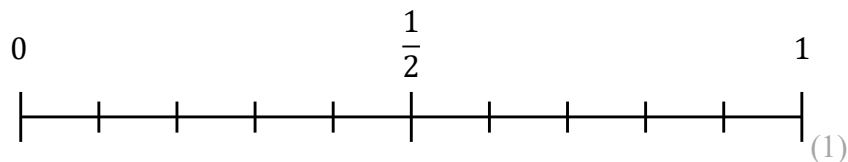
(ii) yellow.

(2)

10 balls are in a bag.
7 of these balls are red.

Liam takes at random a ball from the bag.

(b) On the probability scale below,
mark with a cross (×) the probability that the ball is red.

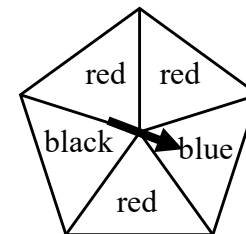


(1)

(Total for Question 1 is 3 marks)



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(a) Write down the word from the box that best describes the likelihood the arrow will land on

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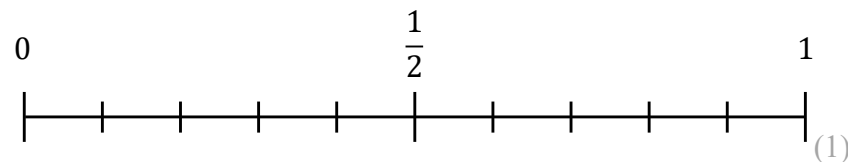
(ii) yellow.

(2)

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7 of these balls are red.

Liam takes at random a ball from the bag.

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(1)

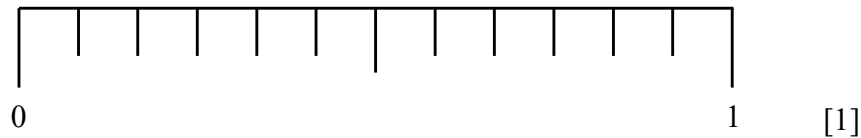
(Total for Question 1 is 3 marks)



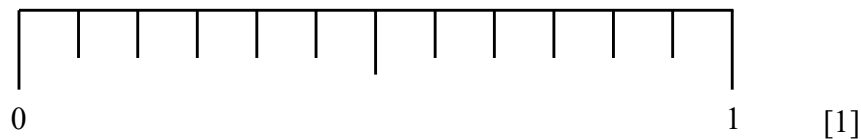
1 Ash has a bag containing 5 green pens, 10 blue pens and 9 red pens only. She takes a pen out of the bag at random.

Draw an arrow (\downarrow) on the probability scale to show the probability that Ash takes

(a) a blue pen,



(a) a green pen or a blue pen.



[1]

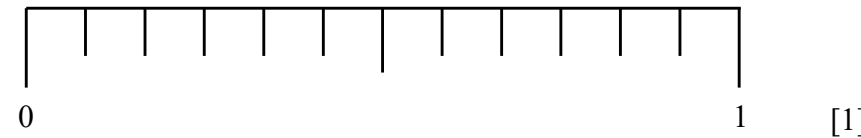
[1]



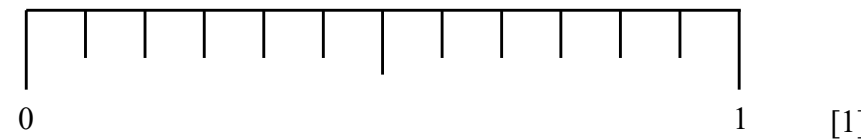
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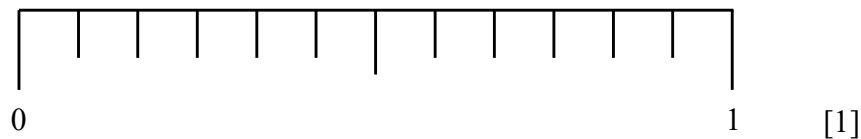
[1]



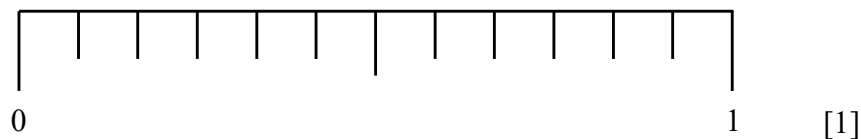
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[1]

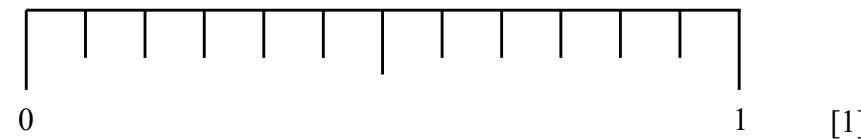
[1]



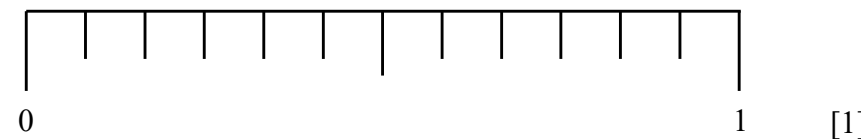
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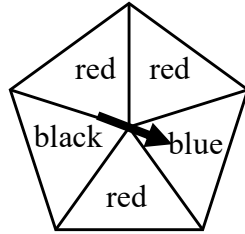


[1]

[1]



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Kalid spins the arrow on the spinner once.

| | | | | |
|------------|----------|-------|--------|---------|
| impossible | unlikely | evens | likely | certain |
|------------|----------|-------|--------|---------|

(a) Write down the word from the box that best describes the likelihood the arrow will land on

(i) black, **unlikely**

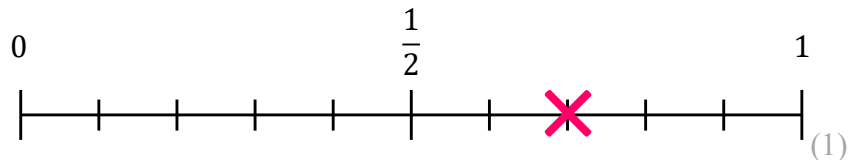
(ii) yellow.
impossible

(2)

10 balls are in a bag.
7 of these balls are red.

Liam takes at random a ball from the bag.

(b) On the probability scale below,
mark with a cross (×) the probability that the ball is red.



(1)

(Total for Question 1 is 3 marks)



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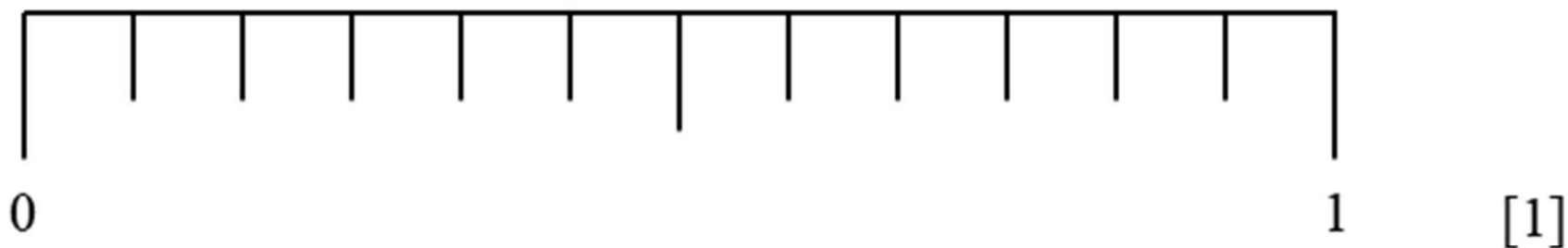
$$= 24$$

Draw an arrow (\downarrow) on the probability scale to show the probability that Ash takes

- (a) a blue pen,



$$10/24 = 5/12$$



- (a) a green pen or a blue pen.

$$15/24 = 7.5/12$$

