



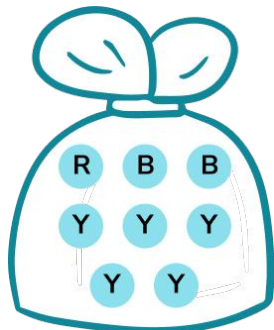
THIRD SPACE
LEARNING

GCSE Exam Questions

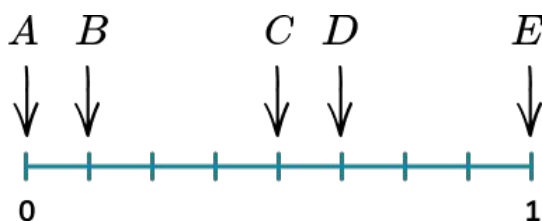
Probability Scale | Probability

GCSE Exam Questions: Probability Scale

- 1) A bag contains 8 counters.
- 1 of the counters is red, 2 are blue and the rest are yellow.



The diagram shows a probability scale.



Which arrow shows the probability of

- (a) Picking a red counter

(1)

- (b) Picking a yellow counter

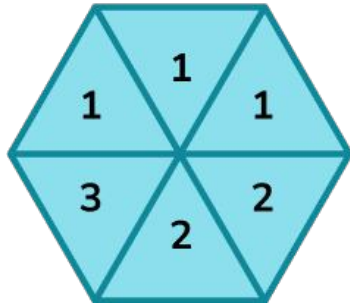
(1)

- (c) Picking a green counter

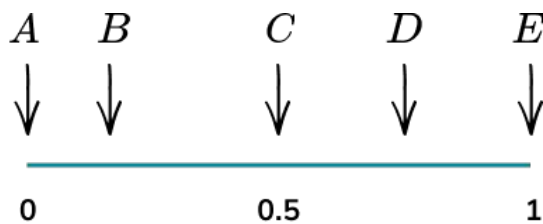
(1)
(3 marks)

GCSE Exam Questions: Probability Scale

- 2) A fair spinner has six sides. They are labelled 1, 1, 1, 2, 2, 3.



The diagram shows a probability scale.



Which arrow shows the probability of

- (a) Scoring a 3

(1)

- (b) Scoring a number greater than 1

(1)

- (c) Scoring a number less than 4

(1)
(3 marks)

GCSE Exam Questions: Probability Scale

- 3) (a) Sandy has three coats. Each day she wears a coat.

The table shows the probability that Sandy wears a coat of a particular colour.

Coat	Red	Blue	Black
Probability	0.2	0.35	

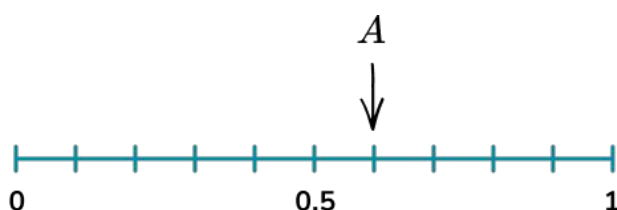
Work out the probability that she wears a black coat.

(2)

- (b) Work out the probability that she wears a red or a black coat.

(2)
(4 marks)

- 4) (a) A fair spinner has five sections. The sections are labelled A, B or C. The diagram shows a probability scale.



The scale shows the probability that the spinner will land on A.

How many of the five sections are labelled A?

----- sections

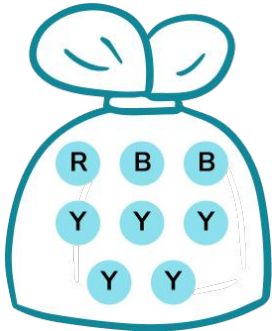
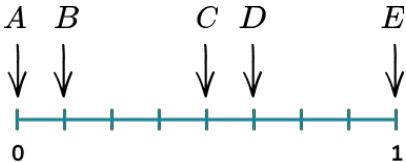
(3)

- (b) The probability of spinning an A is three times the probability of spinning a C. The spinner is spun 100 times.

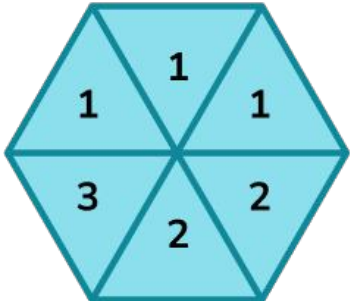
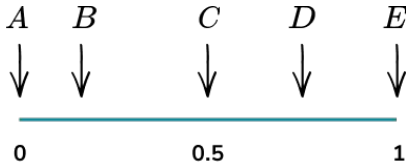
Calculate many times would you expect it to land on a C?

(3)
(6 marks)

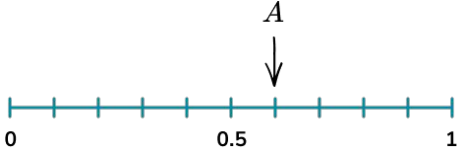
GCSE Exam Questions: Probability Scale Answers

	Question	Answer	Marks
1)	A bag contains 8 counters.  1 of the counters is red, 2 are blue and the rest are yellow. The diagram shows a probability scale.  Which arrow shows the probability of		
(a)	Picking a red counter	(a) B	(1)
(b)	Picking a yellow counter	(b) D	(1)
(c)	Picking a green counter	(c) A	(1)

GCSE Exam Questions: Probability Scale Answers

	Question	Answer	Marks								
2)	A fair spinner has six sides. They are labelled 1, 1, 1, 2, 2, 3.  The diagram shows a probability scale. 										
(a)	Scoring a 3	(a) B	(1)								
(b)	Scoring a number greater than 1	(b) C	(1)								
(c)	Scoring a number less than 4	(c) E	(1)								
3) (a)	Sandy has three coats. Each day she wears a coat. The table shows the probability that Sandy wears a coat of a particular colour. <table border="1" data-bbox="210 1456 746 1536"> <tr> <td>Coat</td><td>Red</td><td>Blue</td><td>Black</td></tr> <tr> <td>Probability</td><td>0.2</td><td>0.35</td><td></td></tr> </table> Work out the probability that she wears a black coat.	Coat	Red	Blue	Black	Probability	0.2	0.35		(a) $1 - (0.2 + 0.25)$ $= 0.45$	(1) (1)
Coat	Red	Blue	Black								
Probability	0.2	0.35									
(b)	Work out the probability that she wears a red or a black coat.	(b) $0.2 + 0.45$ $= 0.65$	(1) (1)								

GCSE Exam Questions: Probability Scale Answers

	Question	Answer	Marks
4) (a)	A fair spinner has five sections. The sections are labelled A, B or C. The diagram shows a probability scale.  The scale shows the probability that the spinner will land on A. How many of the five sections are labelled A?	(a) Probability of A is 0.6 0.6×5 $= 3$	(1) (1) (1)
(b)	The probability of spinning an A is three times the probability of spinning a C. The spinner is spun 100 times. Calculate many times would you expect it to land on a C?	(b) $3 \div 3 = 1$ yellow or $\frac{1}{5}$ yellow $\frac{1}{5} \times 100$ $= 20$	(1) (1) (1)

Where to go next?

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