Q1. (June 2018 v1)

17 **(a)** A box contains 3 blue pens, 4 red pens and 8 green pens only.
A pen is chosen at random from the box.

Find the probability that this pen is green.

..... [1]

Q2. (June 2019 v1)

4 A bag contains green balls and red balls only.
A ball is taken at random from the bag.
The probability of taking a green ball is 0.38 .

Write down the probability of taking

(a) a red ball,

..... [1]

(b) a blue ball.

..... [1]

Q3. (June 2019 v2)

(b) A pencil is taken at random from the box.

Write down the probability that this pencil is green.

..... [1]

Q4. (June 2019 v3)

6 The probability that Alex wins a prize is 0.27 .

Find the probability that Alex does not win a prize.

..... [1]

Q5. (June 2020 v3)

13 On any day, the probability that Marcus will get a seat on the school bus is 0.93 .

(a) Write down the probability that he will **not** get a seat on the school bus today.

..... [1]

(b) There are 200 school days in a year.

Work out the expected number of days in a year that Marcus will **not** get a seat.

..... [1]

Q6. (June 2021 v1)

7 The probability that a train is late is 0.15 .

Write down the probability that the train is not late.

..... [1]

Q7. (June 2021 v2)

10 The probability that Jane wins a game is $\frac{7}{10}$.

Find the probability that Jane does not win the game.

..... [1]

Q8. (June 2021 v3)

12 Francesca spins a four-sided spinner numbered 1, 2, 3 and 4.
The table shows some of the probabilities of landing on each number.

Number	1	2	3	4
Probability	0.18	0.21	0.37	

Complete the table.

[2]

Q9. (June 2022 v1)

13 A 4-sided spinner is numbered 1, 2, 3 and 4.
The table shows the probability of the spinner landing on 1, 2 and 4.

Number	1	2	3	4
Probability	0.27	0.18		0.32

Complete the table.

[2]

Q10. (June 2022 v3)

5 The probability of picking a red sweet from a bag is 0.05 .

Find the probability of not picking a red sweet.

..... [1]

Q11. (June 2023 v1)

15 Eric has four colours of paint.
The table shows the probability that he uses each colour.

Colour	Red	Blue	Green	Yellow
Probability	0.3	0.35	0.13	x

Find the value of x.

$x =$ ..... [2]

Q12. (June 2023 v2)

12 A spinner is spun.
The possible outcomes are A, B, C or D.
The probability of spinning A, C or D is shown in the table.

Letter on spinner	A	B	C	D
Probability	0.2		0.05	0.35

Complete the table.

[2]

Q13. (June 2023 v3)

21 A spinner has five sides.
Each side is painted red, blue, green, yellow or orange.
The table shows some of the probabilities of the spinner landing on each colour.

Colour	Red	Blue	Green	Yellow	Orange
Probability	0.3	0.16	0.18	0.25	

(a) Complete the table. [2]

(b) Dan spins the spinner once.

Find the probability that the spinner lands on red or blue.

..... [2]

Q14. (June 2024 v1)

11 Geetha has a box of toys.
She picks a toy at random from the box.
The probability that she picks a wooden toy is 0.6 .

(a) Work out the probability that she does not pick a wooden toy.

..... [1]

(b) The box contains three types of toys, wooden, plastic or metal.

Type of toy	Wooden	Plastic	Metal
Number of toys		14	14
Probability	0.6		

Complete the table.

[2]

Q15. (June 2024 v3)

8 In a city, the probability that it will rain today is 0.15 .

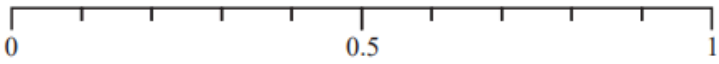
Find the probability that it will not rain today in this city.

..... [1]

Q16. (Nov 2018 v1)

8 A bag contains 50 counters.
10 of the counters are red.
One of the counters is taken from the bag at random.

(a) Draw an arrow (↓) on the scale to show the probability that this counter is red.



[1]

(b) Find the probability that the counter is **not** red.

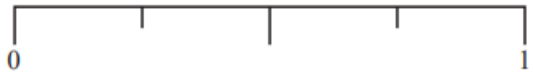
..... [1]

Q17. (Nov 2018 v2)

11 **(a)** A bag contains 6 blue counters and 2 red counters only.
A counter is taken from the bag at random.

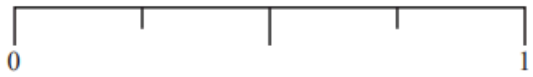
Draw an arrow (↓) on the probability scale to show the probability of taking

(i) a blue counter,



[1]

(ii) a yellow counter.



[1]

(b) Another bag contains green counters and black counters only.
A counter is taken from the bag at random.
The probability of taking a green counter is 0.64 .

Work out the probability of taking a black counter.

..... [1]

Q18. (Nov 2018 v3)

15 Ethan has a box of toys.
He takes a toy at random.

Toy	Car	Train	Bus	Other
Probability	0.2	0.45		0.08

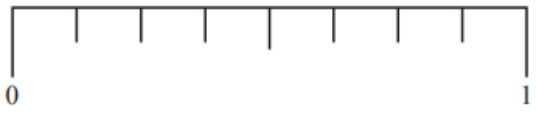
Complete the table. [2]

Q19. (Nov 2019 v1)

5 Rui has a bag containing 5 black pens, 8 red pens and 3 blue pens only.
He takes a pen out of the bag at random.

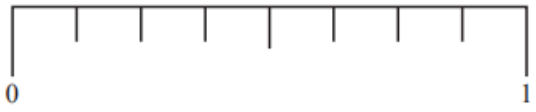
Draw an arrow (↓) on the probability scale to show the probability that Rui takes

(a) a red pen,



[1]

(b) a red pen or a blue pen.

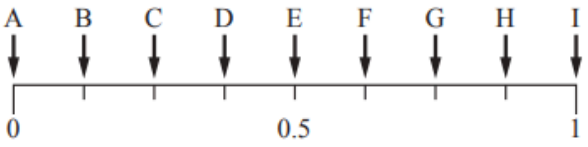


[1]

Q20. (Nov 2019 v2)

5 A bag contains 3 green balls, 4 red balls and 1 blue ball only.
Matt takes a ball from the bag at random.

Some probabilities are marked on the probability scale.



Write down the letter that shows the probability that

(a) Matt takes a red ball,

..... [1]

(b) Matt does **not** take a blue ball.

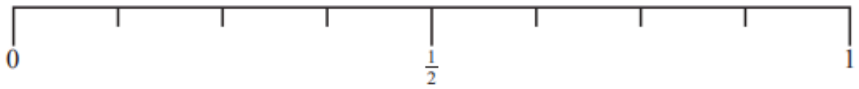
..... [1]

Q21. (Nov 2019 v3)

8 A bag contains 6 red balls and 10 blue balls only.

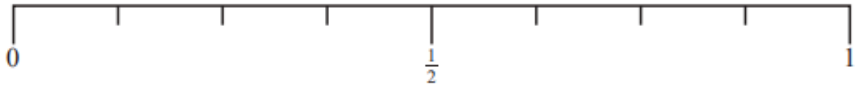
On the probability scale, draw an arrow (↓) to show the probability that a ball taken at random is

(a) blue,



[1]

(b) red or blue.

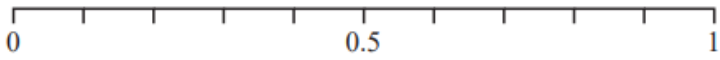


[1]

Q22. (Nov 2020 v2)

4 A bag contains 20 balls.
5 of these balls are red.
A ball is picked at random from the bag.

On the probability scale, draw an arrow (↓) to show the probability that this ball is red.



[1]

Q23. (Nov 2021 v2)

24 Yasmin has 4 white flowers, 3 red flowers and x yellow flowers.
She picks a flower at random.

The probability that it is white is $\frac{1}{5}$.

Find the probability that it is yellow.

..... [4]

Q24. (Nov 2021 v3)

5 Cheng spins a fair 6-sided spinner numbered 1 to 6.

On the probability scale, draw an arrow (↓) to show the probability that the spinner lands on 4.



[1]

Q25. (Nov 2021 v3)

9 The probability that it rains tomorrow is 0.47 .

Find the probability that it does not rain tomorrow.

..... [1]

Q26. (Nov 2022 v1)

14 Mario tests new cars.
The probability that a car is faulty is 0.04 .

(a) Find the probability that a car is not faulty.

..... [1]

Q27. (Nov 2022 v2)

11 A 4-faced dice is numbered 1 to 4.
The table shows some of the probabilities of scoring each number.

Number	1	2	3	4
Probability	0.17		0.28	0.31

Complete the table.

[2]

Q28. (Nov 2023 v1)

23 The table shows the number of people in a town who are left-handed and the number who are right-handed.

	Left-handed	Right-handed	Total
Number of people	8400	48600	57000

Write down the probability that a person, chosen at random, is left-handed.

..... [1]

Q29. (Nov 2023 v3)

12 Rama asks a group of students how they travel to school.
The table shows the probability of how a student, chosen at random, travels to school.

	Bus	Walk	Car	Other
Probability	0.4	0.32	0.17	

(a) Complete the table.

[2]

Q30. (Nov 2023 v3)

19 **(a)** A bag contains these cards.

1	**7**	**3**	**9**	**4**	**5**	**2**

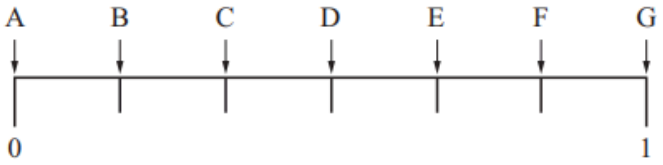
One of these cards is picked at random.

Find the probability that the number on the card is greater than 3.

..... [1]

Q31. (Nov 2024 v3)

5 A bag contains 6 red balls, 4 green balls and 2 blue balls.
Zia takes a ball from the bag at random.



Write down the letter from the probability scale that shows the probability that

(a) Zia takes a green ball

..... [1]

(b) Zia takes a yellow ball

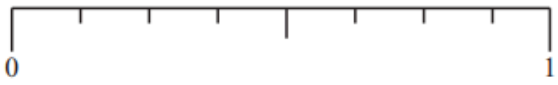
..... [1]

(c) Zia does **not** take a blue ball.

..... [1]

Q32. (Nov 2025 v2)

7 A bag contains 8 discs numbered 1 to 8.
A disc is picked at random from the bag.



On the probability scale, draw an arrow (↓) to show the probability that the number is

(a) an even number, label the arrow A [1]

(b) 9, label the arrow B [1]

(c) less than 3, label the arrow C. [1]