

# P23- Probability and Listing Outcomes

OCR

Edexcel

There are only 3 buttons in a box.

There is

1 pink button

1 yellow button

1 brown button

Indre takes a button from the box.

She also throws an ordinary dice once.

(b) List all the possible outcomes.

.....

.....

.....

There are only 3 buttons in a box.

There is

1 pink button

1 yellow button

1 brown button

Indre takes a button from the box.  
She also throws an ordinary dice once.

1, 2, 3, 4, 5, 6

(b) List all the possible outcomes.

P1 P2 P3 P4 P5 P6

Y1 Y2 Y3 Y4 Y5 Y6

B1 B2 B3 B4 B5 B6

**12** Cameron writes down one letter from the word **HOUR**.

Then he writes down one number from **5**, **6** and **7**

(a) List all the possible combinations Cameron can write down.

N49

P23

(2)

(b) What is the probability that Cameron writes down **T7**?

P23

(1)

12 Cameron writes down one letter from the word **HOUR**.

Then he writes down one number from **5, 6** and **7**

(a) List all the possible combinations Cameron can write down.

N49

H5      O5      U5      R5

P23

H6      O6      U6      R6

H7      O7      U7      R7

(2)

(b) What is the probability that Cameron writes down **T7**?

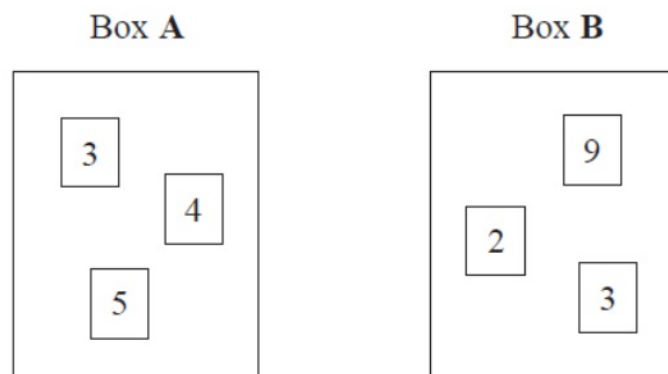
P23

0

(1)

- 17 There are 3 cards in Box A and 3 cards in Box B.  
There is a number on each card.

Created by W Neill



Ryan takes at random a card from Box A and a card from Box B.  
He adds together the numbers on the two cards to get a total score.

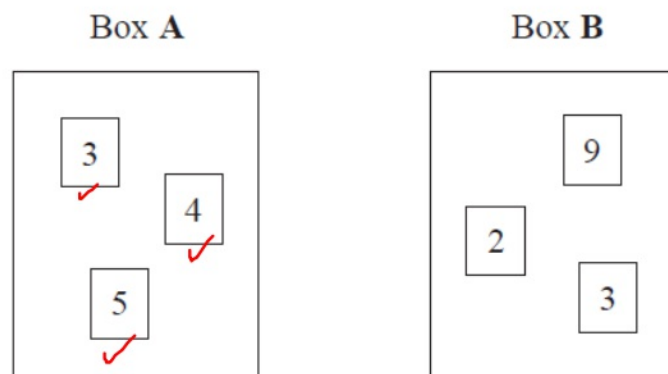
Work out the probability that the total score is an odd number.

.....  
**(Total for Question 17 is 2 marks)**



- 17 There are 3 cards in Box A and 3 cards in Box B.  
There is a number on each card.

Created by W Neill



Ryan takes at random a card from Box A and a card from Box B.  
He adds together the numbers on the two cards to get a total score.

Work out the probability that the total score is an odd number.

A	+	B	
3	+	9	= 12
3	+	2	5
3	+	3	6
4	+	9	13
4	+	2	6
4	+	3	7
5	+	9	14
5	+	2	7
5	+	3	8

$$\frac{4}{9}$$

(Total for Question 17 is 2 marks)



Indre throws the dice once.  
She also throws a coin to get Heads or Tails.

(c) List all the possible outcomes she can get.

P23

---

---

---

(2)

Indre throws the dice once.  
She also throws a coin to get Heads or Tails.

(c) List all the possible outcomes she can get.

P23

H,1    H,2    H,3    H,4    H5    H6

T1    T2    T3    T4    T5    T6



(2)

AQA