

Name: _____

Exam Style Questions



Listing Outcomes

Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 253



1. A bag contains a green bead (G), a white bead (W) and a purple bead (P).
A coin can land on tails (T) or heads (H).

A bead is chosen at random from the bag and the coin is flipped.
One of the possible outcomes is a green bead and a tail (GT).

List all the other possible outcomes.

GT,

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(2)

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2. Molly visits a restaurant with her friends.
This is a menu.

Starters	Mains
Soup	Chicken
Prawn Cocktail	Beef
Melon	Pizza

Molly chooses one starter and one main.

List all the possible combinations.

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(2)

3. Micky goes to a coffee shop.
He chooses one drink and one snack.

Drink	Snack
Tea	Muffin
Coffee	Brownie
Juice	Crisps
	Pastry

Write down all the possible combinations.

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(2)

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4. Orla has four types of vegetable.

Peas
Carrots
Turnip
Spinach

Orla is going to choose 2 different types of vegetable.

Write down all the possible combinations of vegetable she can choose.

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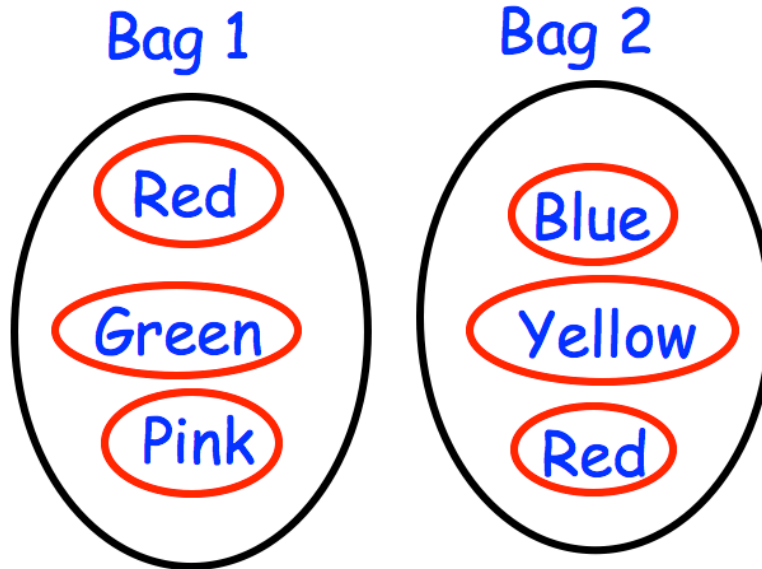
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(2)

5. There are two bags.
Each bag has three counters inside.

In bag 1, there is one red counter, one green counter and one pink counter.
In bag 2, there is one blue counter, one yellow counter and one red counter.



Rob takes a counter at random from bag 1 and a counter at random from bag 2.

- (a) Write a list of all the possible combinations of the two counters that Rob can take.

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(2)

- (b) Find the probability that Rob takes two counters that are the same colour.

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(1)

6. Magnus flips a fair coin once and rolls an ordinary dice once.

(a) Write down all the possible outcomes.

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(2)

(b) Find the probability that Magnus gets a head and a 3.

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(1)

7. Two coins are flipped.

List all the possible outcomes.
Use T for tails and H for heads.

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(2)

8. Mohammad flips a fair coin and rolls a fair dice.

List all the possible combinations

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(2)

(b) Find the probability that Mohammad gets a tail and a prime number.

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(1)

9. William is going to attend a two day summer camp at his local leisure centre. He can take part in one activity on Monday and one activity on Tuesday.

Monday	Tuesday
Golf	Ice-skating
Football	Swimming
Rugby	Dodgeball
Hockey	Basketball

List all the possible combinations of activity he can take part in.

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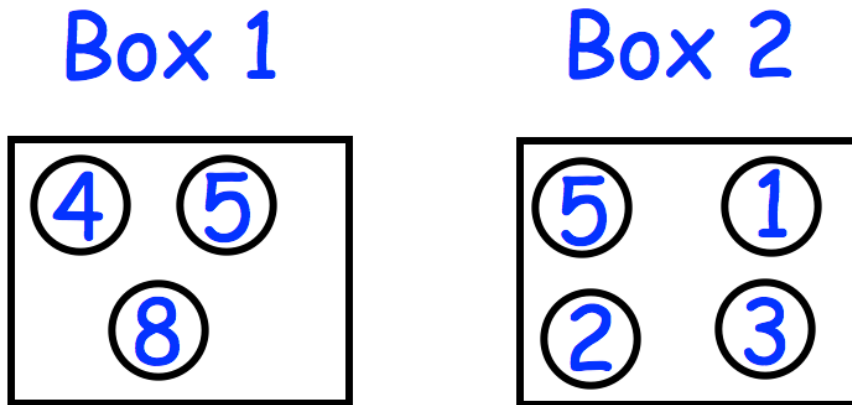
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10. Sarah has made up a game for a school fayre to raise money for charity. There are two boxes of counters. Each counter has a number on it.



The person playing the game will select one counter at random from box 1. Then they will select one counter at random from box 2.

- (a) Write down all the possible combinations of counters picked.

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(2)

The person playing the game wins when the numbers add up to 10.

During the school fayre, the game is played 240 times.

The game costs £1 to play.

Each prize costs £2.50

- (b) Work out how much money Sarah raises for charity.

£.....

(4)

11. Megan is having a meal with her friends.
She is going to choose one starter, one main and one dessert.
This is the menu.

Starter		Main		Dessert	
Soup	£2.50	Chicken	£6.25	Trifle	£3.50
Prawns	£4.25	Beef	£8.00	Brownie	£4.00
Melon	£3.50	Pork	£7.50	Eton Mess	£4.50

Megan has £15

List all the possible combinations that Megan can afford.

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