



# New Maths GCSE: N5 - Systematic Listing Strategies

Name:.....

Date:.....

In a bag there is a red counter, a blue counter, a green counter and a yellow counter.

You pick two counters out of the bag at the same time.

How many different combinations of colours are possible?

<b>A</b>	4	<b>B</b>	6
<b>C</b>	10	<b>D</b>	16

Correct Answer: A B C D

Explanation:

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You have the following coins:  
1p, 2p, 5p, 5p, 10p, 10p, 20p.

Using two of the coins, how many ways can you make a total greater than 15p?

<b>A</b>	6	<b>B</b>	7
<b>C</b>	8	<b>D</b>	14

Correct Answer: A B C D

Explanation:

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How many numbers between 100 and 200 have at least one digit that is 7?

<b>A</b>	9	<b>B</b>	10
<b>C</b>	19	<b>D</b>	20

Correct Answer: A B C D

Explanation:

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A drinks machine sells Tea, Coffee and Hot Vimto.

Jenny buys 2 drinks at random.

How many different combinations of 2 drinks are possible?

- A** 3
- B** 6
- C** 8
- D** 9

Correct Answer: A B C D

Explanation:

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In a café there are a choice of three drinks and five sandwiches.

How many different combinations of a drink and a sandwich are there?

- A** 15
- B** 2
- C** 8
- D** 35

Correct Answer: A B C D

Explanation:

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Tom has 5 shirts, 4 pairs of trousers and 6 pairs of socks.

How many different combinations of shirt, trousers and socks does he have?

- A** 120
- B** 15
- C** 240
- D** 26

Correct Answer: A B C D

Explanation:

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Tom has 5 shirts, 4 pairs of trousers and 6 pairs of socks.

Tom selects a shirt to wear. Now how many different combinations of outfit has he got to choose from?

- A** 25
- B** 24
- C** 10
- D** 120

Correct Answer: A B C D

Explanation:

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How many three-digit numbers are even?

*NOTE: the first digit cannot be zero, so 075 does not count.*

**A** 450                      **B** 451

**C** 400                      **D** 500

Correct Answer: A B C D

Explanation:

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How many factors of 60 are less than 20?

**A** 7                              **B** 8

**C** 9                              **D** 10

Correct Answer: A B C D

Explanation:

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What is the largest odd number you can make using these cards?

**5** **2** **9** **8** **4**

**A** 98425                      **B** 98542

**C** 85429                      **D** 24589

Correct Answer: A B C D

Explanation:

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