The pupils of Masters Academy are going on a school trip to the Grand Portrait Gallery. They have been studying famous artists and are excited at the thought of seeing their favourite and most famous portraits at the gallery.

When they arrive, they are led into the reception area where they are counted twice for good measure and then told which groups they are in.

However, disaster has struck! Some budding artist has sneaked away from the group and, with their felt tip pen, drawn moustaches on all the portraits!

Your task is to use the evidence and the descriptions of the suspects to identify the mystery moustache meddler!







visit twinkl.com

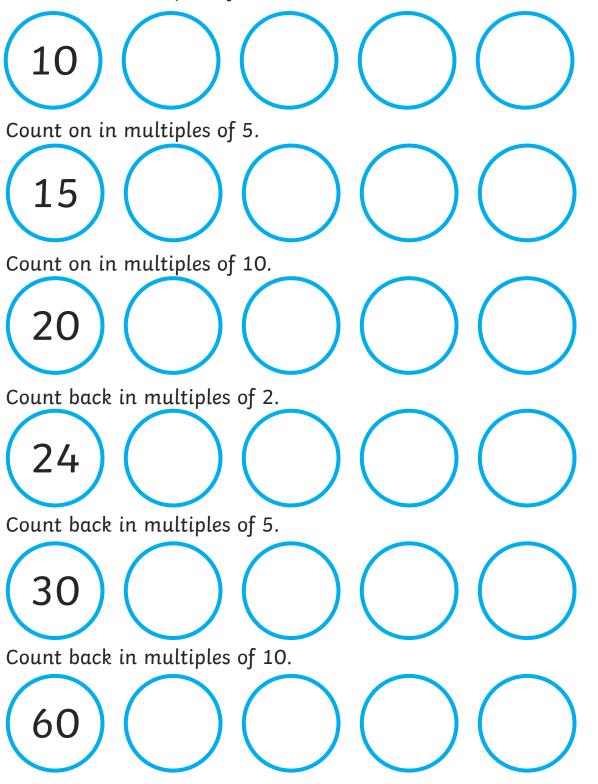
Description of Suspects

Name	Male/ Female	Height	Group Name	Type of Chocolate in Lunchbox	Shoe Size
Alesso	m	tall	Klee	Caramel Bite	5
Bridget	f	short	Mondrian	Dippy Duo	5
Claude	m	tall	Klee	Caramel Bite	3
Dora	f	tall	Cézanne	Dippy Duo	5
Eugene	m	tall	Klee	Dippy Duo	3
Frieda	f	short	Mondrian	Nutty Choc	3
Georgia	f	tall	Klee	Caramel Bite	4
Hans	m	short	Cézanne	Nutty Choc	3
Ingrid	f	tall	Klee	Caramel Bite	5
Jean	m	tall	Mondrian	Dippy Duo	3
Kiki	f	tall	Cézanne	Caramel Bite	5
Louis	m	short	Mondrian	Dippy Duo	4
Maya	f	tall	Monet	Dippy Duo	3
Nicolas	m	tall	Klee	Caramel Bite	5
Orlan	m	tall	Klee	Dippy Duo	4
Pierre	m	short	Mondrian	Dippy Duo	4
Raphael	m	tall	Klee	Caramel Bite	4
Sisco	m	tall	Monet	Nutty Choc	4
Tomas	m	tall	Klee	Choco Glory	4
Veronique	f	short	Monet	Caramel Bite	5



#### Clue 1: Forwards and Backwards

Add the missing numbers to complete the number patterns. Count on in multiples of 2.







Look at the last number in each row. Find the numbers in the table below and colour them in.

Rearrange the words into a sentence to solve the first clue.

18	60	35
is	doodler	the
50	20	14
short	tall	female
10	16	15
mysterious	moustache	chocolate

Answer to clue 1: \_\_\_\_\_







#### Clue 2: Right or Wrong

Work out if these statements are right or wrong.

Then count the number of right answers and the number of wrong answers.

	Right	Wrong
A rectangle has two long sides the same length and two shorter sides the same length.		
These coins add up to £1.16.		
140cm is the same as 1m 40cm.		
There are 15 days in two weeks.		
A cylinder has two squares at each end.		
2 + 2 + 2 + 2 is equal to 4 × 2.		
42 - 13 = 30		

If there are more right answers, the moustache doodler is female. If there are more wrong answers, the moustache doodler is male.

Circle one:

male

female



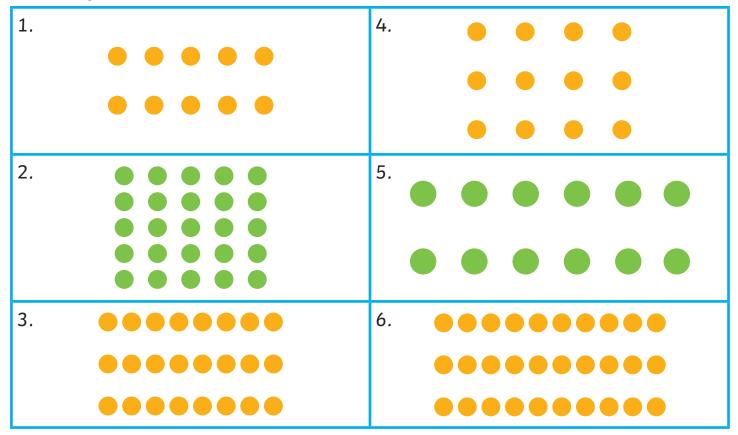


#### Clue 3: Arrays of Arrays!

Here are some arrays.

Use the table below to find which calculation they show.

Rearrange the words to make a sentence to solve the third clue.



8 × 3 = 24	10 × 3 = 30	4 × 5 = 20	4 × 3 = 12
is	Klee	Cézanne	in
10 × 5 = 50	8 × 2 = 16	6 × 2 = 12	2 × 7 = 14
Choco Glory	Monet	vandal	chocolate
5 × 2 = 10	2 × 3 = 6	5 × 5 = 25	10 × 2 = 20
the	found	group	wrapper

Answer to clue 3: \_\_\_\_\_





#### Clue 4: Fraction of a Whole

Match up the fraction statements with the correct answers. Rearrange the words to make a sentence to solve the fourth clue.

1/2 of 8	1/4 of 24	1/2 of 10	1/4 of 28
1/2 of 6	1/4 of 48	<sup>1</sup> / <sub>2</sub> of 18	<sup>1</sup> / <sub>4</sub> of 40
3	0	4	10
was	shoe	beside	found
1	5	11	7
Dippy Duo	wrapper	Choco Glory	Caramel Bite
6	9	12	2
the	a	paintings	size

Answer to clue 4:





visit twinkl.com

#### **Clue 5: Missing Moustaches**

Fill in the missing numbers.

Then, colour in the numbers you have written in the table below.

Rearrange the words to make a sentence to solve the final clue.

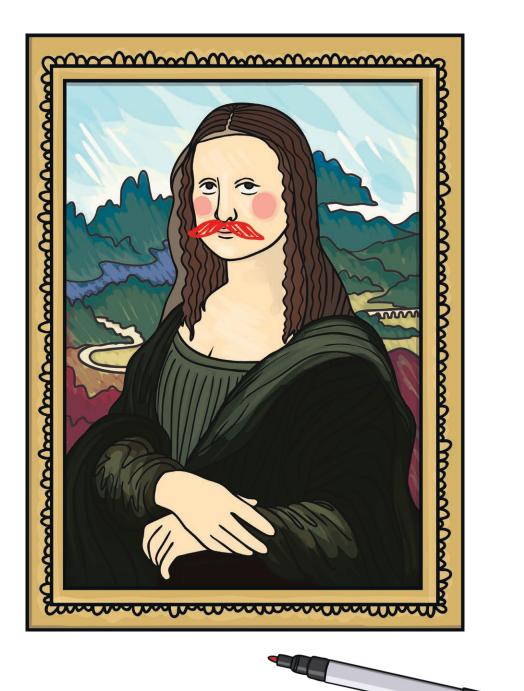
Be careful, sometimes you need to count forwards and sometimes backwards!

96	97		99			101	
103		101	100			98	
88	89		91			93	
75	74		72		71		
102 the		76 five	) 2			101 drawing	
90 vandal		73 moust				105 three	
66 behind		100 a			99 left		
98 size		70 four				92 footprint	

Answer to clue 5: \_\_\_\_



Have you solved the mystery of the moustache doodling vandal? The mysterious moustache doodler is: \_\_\_\_\_







#### Answers

#### Clue 1: Forwards and Backwards

18	60	35
is	doodler	the
50	20	14
short	tall	female
10	16	15
mysterious	moustache	chocolate

Answer to clue 1: The mysterious moustache doodler is tall.

#### Clue 2: Right or Wrong

	Right	Wrong
A rectangle has two long sides the same length and two shorter sides the same length.	$\checkmark$	
These coins add up to £1.16.		
		$\checkmark$
140cm is the same as 1m 40cm.	$\checkmark$	
There are 15 days in two weeks.		$\checkmark$
A cylinder has two squares at each end.		$\checkmark$
2 + 2 + 2 + 2 is equal to 4 × 2.	$\checkmark$	
42 - 13 = 30		$\checkmark$

Answer to clue 2: There are more wrong answers so the culprit is male.





#### Answers

Clue 3: Arrays of Arrays!

8 × 3 = 24	10 × 3 = 30	4 × 5 = 20	4 × 3 = 12
is	Klee	Cézanne	in
10 × 5 = 50	8 × 2 = 16	6 × 2 = 12	2 × 7 = 14
Choco Glory	Monet	vandal	chocolate
5 × 2 = 10	2 × 3 = 6	5 × 5 = 25	10 × 2 = 20
the	found	group	wrapper

Answer to clue 3: The vandal is in Klee group.

#### Clue 4: Fraction of a Whole

3	0	4	10
was	shoe	beside	found
1	5	11	7
Dippy Duo	wrapper	Choco Glory	Caramel Bite
6	9	12	2
the	a	paintings	size

Answer to clue 4: A Caramel Bite wrapper was found beside the paintings. Clue 5: Missing Moustaches

102	76	101
the	five	drawing
90	73	105
vandal	moustache	three
66	100	99
behind	a	left
98	70	92
size	four	footprint

Answer to clue 5: The moustache drawing vandal left a size four footprint.

The mysterious moustache doodler is Raphael!



