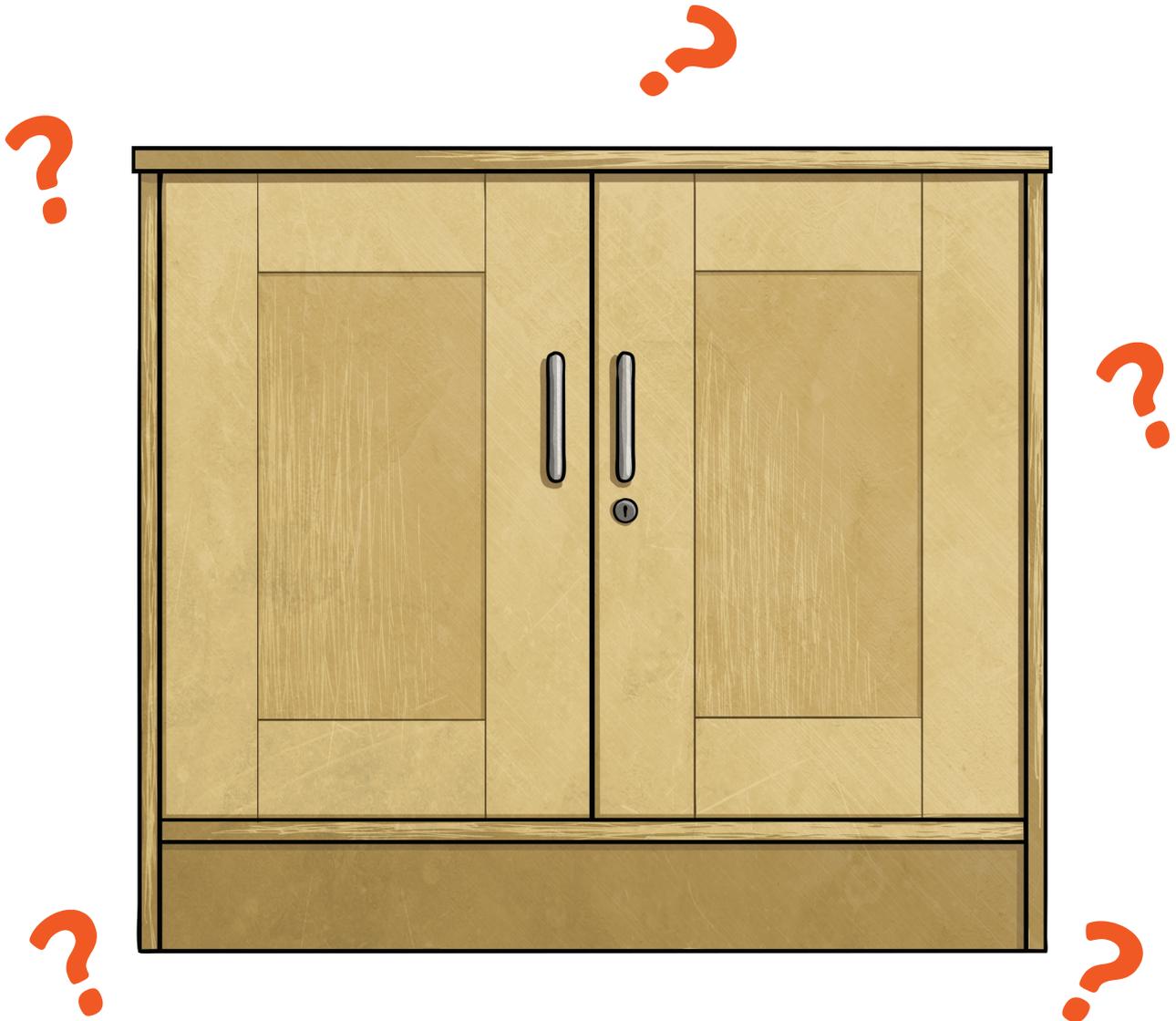


# The Mystery of the Locked Cupboard

It's the start of a new school year and Mr Wilson is busy making sure that all of the resources his new class will need are exactly where they should be. He remembers that at the end of last term, one of the year 5 pupils locked all of the tablets safely in the storage cupboard for the holidays. However, when Mr Wilson goes to the key cupboard, he discovers that the key is missing!

Mr Wilson frantically racks his brain, desperately trying to remember who he asked to lock the cupboard. If he can work out who helped him, he might be able to find the missing key before the new school year starts.

Can you help Mr Wilson work out who the mystery key-keeper was by solving the clues?

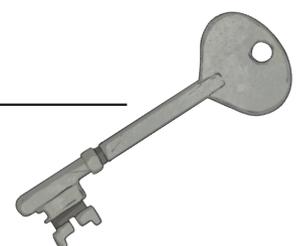


# The Mystery of the Locked Cupboard

Pupil's Name	Male or Female?	Long or Short Hair?	Height	Special Role in School
Alex	male	short	162cm	school council
Bertie	male	long	156cm	eco group
Charlie	male	short	154cm	school council
Delilah	female	long	165cm	peer supporter
Eddie	male	short	171cm	peer supporter
Fredrick	male	long	155cm	eco group
Greta	female	long	162cm	school council
Harriet	female	long	153cm	school council
Jessie	female	short	152cm	peer supporter
Kylie	female	short	149cm	eco group
Markus	male	long	154cm	tuck shop team
Nikita	female	short	144cm	tuck shop team
Paulo	male	short	149cm	peer supporter
Rosie	female	long	161cm	eco group
Sven	male	short	151cm	tuck shop team
Ulrika	female	long	142cm	peer supporter



The mystery key-keeper was: \_\_\_\_\_



# The Mystery of the Locked Cupboard

## Clue 1

Order each set of numbers from the smallest to greatest. Take the last number in each set and circle it on the table. Finally, rearrange the circled words to find the first clue.

<b>4256</b>	<b>5250</b>	<b>5105</b>	<b>5002</b>	<b>5205</b>

<b>87 362</b>	<b>78 326</b>	<b>78 623</b>	<b>87 263</b>	<b>87 326</b>

<b>12.65</b>	<b>12.56</b>	<b>21.56</b>	<b>21.65</b>	<b>15.26</b>

<b>0.637</b>	<b>0.367</b>	<b>0.763</b>	<b>0.376</b>	<b>0.736</b>

<b>0.481</b>	<b>0.48</b>	<b>0.408</b>	<b>0.418</b>	<b>0.048</b>

87 362 key	5250 the	87 326 female
21.65 keeper	21.56 not	0.418 mystery
0.481 male	0.736 is	0.763 isn't

Clue 1: \_\_\_\_\_

# The Mystery of the Locked Cupboard

## Clue 2

Check these calculations and number sequences. If a calculation or sequence is right, put a tick. If it is wrong, put a cross. Count up the number of ticks and crosses.

If there are more ticks than crosses, the culprit has long hair.

If there are more crosses than ticks, the culprit has short hair.

	✓	✗
3, 2, 1, -1, -2, -3		
XC - IX = LXXXI		
867 201 > 876 201		
8750 = 875 tens		
50, 25, 0, -50, -25		
10 000 + 100 000 + 10 = 101 010		
300, 200, 100, 0, -100, -200		
5000 + 50 000 + 50 = 55 050		
1230 < 12 330 < 123 330		
Total		

**Clue 2:** The culprit has \_\_\_\_\_.

# The Mystery of the Locked Cupboard

## Clue 3

Look at the underlined digit in each number. Match it to the correct value in the grid to find the next clue.

<b>235.<u>8</u></b>	<b>2.<u>3</u>58</b>
<b>3.<u>2</u>58</b>	<b><u>2</u>3 538</b>
<b>32 <u>3</u>58</b>	<b>8<u>3</u> 238</b>
<b><u>8</u>38 235</b>	<b>5<u>8</u>8 853</b>

8 tenths the	8000 40cm	20 000 is	300 taller
3000 than	5 hundredths key	2000 shorter	800 000 1m
8 thousandths keeper	80 000 60cm	5 thousandths isn't	8 hundredths 50cm



Clue 3: \_\_\_\_\_

# The Mystery of the Locked Cupboard

## Clue 4

Crack the code to find the final clue.

÷	200	50	12	106	8400	783	21 000	9	120 000
10	a	b	c	d	e	f	g	h	i
100	j	k	l	m	n	o	p	q	r
1000	s	t	u	v	w	x	y	z	I

120	
20	
1.06	
20	
0.2	
1.2	
0.9	
7.83	
7.83	
0.12	

1.2	
7.83	
0.012	
84	
1.2	
12 000	
0.12	
1.06	
840	
1.06	
5	
840	
1200	

Clue 4: \_\_\_\_\_

# The Mystery of the Locked Cupboard - Answers

## Clue 1

Order each set of numbers from the smallest to greatest. Take the last number in each set and circle it on the table. Finally, rearrange the circled words to find the first clue.

4256	5250	5105	5002	5205
4256	5002	5105	5205	5250

87 362	78 326	78 623	87 263	87 326
78 326	78 623	87 263	87 326	87 362

12.65	12.56	21.56	21.65	15.26
12.56	12.65	15.26	21.56	21.65

0.637	0.367	0.763	0.376	0.736
0.367	0.376	0.637	0.736	0.763

0.481	0.48	0.408	0.418	0.048
0.048	0.408	0.418	0.48	0.481

87 362 key	5250 the	87 326 female
21.65 keeper	21.56 not	0.418 mystery
0.481 male	0.736 is	0.763 isn't

**Clue 1: The key-keeper isn't male.**

# The Mystery of the Locked Cupboard - Answers

## Clue 2

Check these calculations and number sequences. If a calculation or sequence is right, put a tick. If it is wrong, put a cross. Count up the number of ticks and crosses.

If there are more ticks than crosses, the culprit has long hair.

If there are more crosses than ticks, the culprit has short hair.

	✓	✗
3, 2, 1, -1, -2, -3		✗
XC - IX = LXXXI	✓	
867 201 > 876 201		✗
8750 = 875 tens	✓	
50, 25, 0, -50, -25		✗
10 000 + 100 000 + 10 = 101 010		✗
300, 200, 100, 0, -100, -200	✓	
5000 + 50 000 + 50 = 55 050	✓	
1230 < 12 330 < 123 330	✓	
Total	5	4

**Clue 2: The key-keeper has long hair.**

# The Mystery of the Locked Cupboard - Answers

## Clue 3

Look at the underlined digit in each number. Match it to the correct value in the grid to find the next clue.

<b>235.<u>8</u></b>	<b>2.<u>3</u>58</b>
<b>3.<u>2</u>58</b>	<b><u>2</u>3 538</b>
<b>32 <u>3</u>58</b>	<b>8<u>3</u> 238</b>
<b><u>8</u>38 235</b>	<b>5<u>8</u>8 853</b>

8 tenths the	8000 40cm	20 000 is	300 taller
3000 than	5 hundredths key	2000 shorter	800 000 1m
8 thousandths keeper	80 000 60cm	5 thousandths isn't	8 hundredths 50cm

**Clue 3: The key-keeper is taller than 1m 60cm.**

# The Mystery of the Locked Cupboard - Answers

## Clue 4

Crack the code to find the final clue.

÷	200	50	12	106	8400	783	21 000	9	120 000
10	a	b	c	d	e	f	g	h	i
100	j	k	l	m	n	o	p	q	r
1000	s	t	u	v	w	x	y	z	I

120	<b>I</b>
20	<b>a</b>
1.06	<b>m</b>
20	<b>a</b>
0.2	<b>s</b>
1.2	<b>c</b>
0.9	<b>h</b>
7.83	<b>o</b>
7.83	<b>o</b>
0.12	<b>l</b>

1.2	<b>c</b>
7.83	<b>o</b>
0.012	<b>u</b>
84	<b>n</b>
1.2	<b>c</b>
12 000	<b>i</b>
0.12	<b>l</b>
1.06	<b>m</b>
840	<b>e</b>
1.06	<b>m</b>
5	<b>b</b>
840	<b>e</b>
1200	<b>r</b>

**Clue 4: The key-keeper is a school council member.**

**The mystery key-keeper was: Greta**