The Back to School Mystery of the Cloakroom Chaos

The pupils of Sunny Coast Primary School have had a wonderful summer break. Year 3 are excited to be in the juniors and year 4 are glad they're not the youngest in KS2 anymore.

They have missed their friends and are looking forward to swapping holiday mishap stories, tales about their brothers and sisters and worries about the homework they haven't done!

They pile into the shared cloakroom and locate where their peg is this year. They hang up their PE bag and new school coats, with warnings from their parents not to let their coats end up on the floor. They stumble into their new classroom and wait for the day to begin.

The bell rings a few hours later and they pile out to the cloakroom to collect their coats. Wait, oh no! Disaster has struck! Someone has naughtily swapped all the PE bags and coats around! No one can find anything and complete cloakroom chaos ensues!

A number of people were discovered to have been out of classes during the first session.

Your task is to use the suspect descriptions and solve the clues to identify the mystery cloakroom chaos creator!

Good luck!

Name	M/F	Year Group	Hair Colour	Lunchbox Treat	Shoe Size
Aron	M	3	blonde	chocolate	1
Amena	F	3	black	jelly sweets	13
Byron	M	4	blonde	sherbet	2
Billie	F	3	brown	chocolate	1
Charlie	M	4	black	chewy bar	2
Cassie	F	4	black	chocolate	2
Daniel	M	3	red	chocolate	13
Dina	F	4	brown	chocolate	2
Evie	F	4	black	sherbet	1
Elias	M	4	blonde	chewy bar	1
Freddy	M	4	red	chocolate	1
Freya	F	4	black	chocolate	2
Gil	M	3	black	chewy bar	1
Grace	F	4	black	chocolate	13
Hai	M	3	black	chocolate	2
Himmat	F	4	black	chocolate	2
Isla	F	3	blonde	chocolate	1
Ishmael	M	4	brown	sherbet	13
James	M	4	blonde	jelly sweets	2
Jessica	F	4	brown	chewy bar	1
Kamil	M	4	black	chocolate	1
Krissie	F	3	brown	chocolate	13
Lily	F	4	brown	jelly sweets	1
Li	M	3	black	chewy bar	1
Mohan	M	3	black	chocolate	2
Magda	F	4	blonde	sherbet	2
Natalia	F	4	black	chocolate	1
Neil	M	3	brown	chocolate	13
Osman	M	4	black	jelly sweets	2
Ola	F	4	blonde	chocolate	1

Clue 1: Match and Repeat

The cloakroom coat changer must have had something on their fingers when they swapped the coats around.

Solve the clue to find out what it was.

Match up the multiplication statements with the repeated addition statements.

Use the words in the table to solve the first clue.

| 4 × 6 | 10 × 2 | 5 × 7 | 6 × 8 | 3 × 4 | 8 × 2 | 4 × 2 | 3 × 6 |

8 + 2 + 8 were	10 + 10 + 10 chewy bar	4 + 4 + 4 smeared

| 2 + 2 + 2 + 2 <br> coat | 3 + 3 + 3 <br> jellies | 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 <br> was |

| 6 + 6 + 6 <br> chocolate | 6 + 6 + 6 + 6 + 6 <br> they | 6 + 6 + 6 + 6 <br> found |

| 7 + 7 + 7 + 7+ 7 <br> on | 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 <br> pegs | 8 + 8 + 8 + 8 + 8 + 8 <br> the |

| 5 + 5 + 5 + 5 + 5 <br> sherbet |

Answer to Clue 1: _____

Clue 2: More or Less

Use these signs < > in these number statements.

46 + 16 ☐ 23 + 35   50 ÷ 10 ☐ 24 ÷ 2

5 × 3 ☐ 3 × 2   24 + 14 ☐ 52 − 11

53 − 19 ☐ 67 − 29   4 × 5 ☐ 10 × 3

2 × 8 ☐ 4 × 3   25 ÷ 5 ☐ 20 ÷ 2

If there are more > signs, the culprit is in year 3.

If there are more < signs, the culprit is in year 4.

Answer to Clue 2: _____
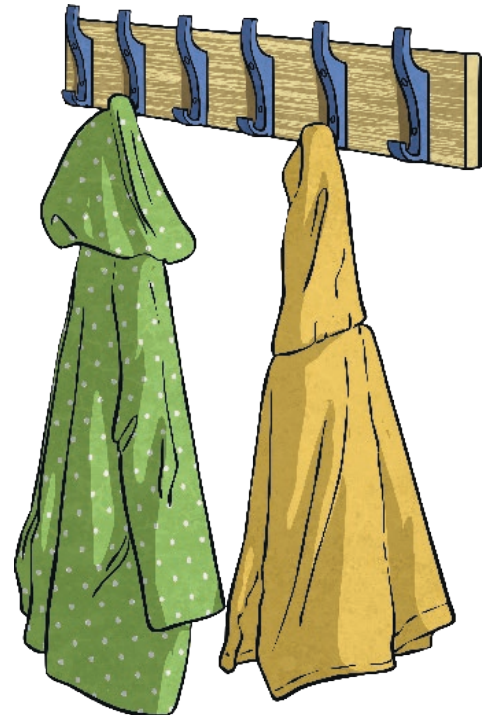
Clue 3: Work it Out

Work out the answers to the problems below. Match each answer to a letter to reveal the next clue.

A	B	C	D	E	F	G	H	I	J	K	L	M
21	2	14	9	15	24	20	1	3	22	50	30	5

N	O	P	Q	R	S	T	U	V	W	Y
12	180	11	0	13	8	6	31	4	27	55

|	Answer	Letter
The total number of vertices in four triangles.		
The number of minutes in 3 hours.		
The number of tens in 8765.		
40 ÷ 8		
The number of days in three weeks.		
5 + 5 + 5 + 5 + 5 + 5		
$\dfrac{3}{4}$ of 20		

Answer to Clue 3: ___ / ____

Clue 4: What's the Problem?

Solve these word problems. Each answer will reveal a word from the following page. Once you have found out all the words, rearrange them to reveal the next clue.
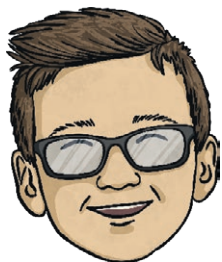
There are 10 exercise books in a stack. There are 35 children in one class. How many stacks are needed?
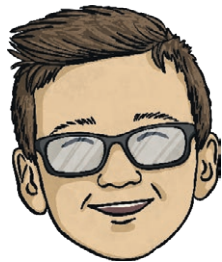
There are fifteen PE bags, each with a pair of pumps inside. How many pumps is that altogether?

If you bake 55 cookies and you sell 39 at the harvest fair, how many would you have left?
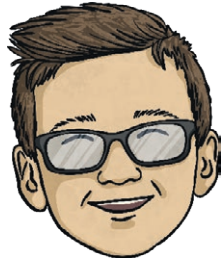
A pack of six gel pens cost £5. If you spent £15, how many pens would you have bought?

Clue 4: What's the Problem?

Lessons will stop for lunch at 12.10. How many minutes until lunch starts?

The fence along the side of the playground has come down in a storm. One panel is 2m long. 16m of fencing is needed. How many panels will that be?

Six children can sit round a table in year 4. If there are 30 children, how many tables are needed?

30 chaos	6 lost	15 coats
3 blonde	35 cloakroom	10 they
16 the	12 brown	18 maker
2 red	4 hair	5 black
8 has	9 strands	20 discovered

Answer to Clue 4: _____

Clue 5: Tens and Hundreds

A footprint was discovered in the cloakroom, after the culprit finished causing mayhem!

Work out if the missing numbers are 10 or 100 more or less, to find out the size of the footprint!

1. [ ] 150   160

2. 302   312   [ ]

3. 19   [ ]   39

4. 439   [ ]   459

5. 200   [ ]   400

6. [ ]   224   324

7. [ ]   515   615

449 culprit	429 two	20 lost	322 have
353 had	140 size	300 shoes	332 wasn't
29 must	400 feet	21 dropped	303 discovered
414 thirteen	124 the	104 there	415 one

Answer to Clue 5: _____

Have you found the cloakroom chaos culprit?

_____

The Back to School Mystery of the Cloakroom Chaos - Answers

Clue 1 - Match and Repeat
Chocolate was found smeared on the coat pegs.

| 4 × 6 | 10 × 2 | 5 × 7 | 6 × 8 | 3 × 4 | 8 × 2 | 4 × 2 | 3 × 6 |

8 + 2 + 8
were

10 + 10 + 10
chewy bar

4 + 4 + 4
smeared

2 + 2 + 2 + 2
coat

3 + 3 + 3
jellies

2 + 2 + 2 + 2 + 2 +
2 + 2 + 2 + 2 + 2
was

6 + 6 + 6
chocolate

6 + 6 + 6 + 6 + 6
they

6 + 6 + 6 + 6
found

7 + 7 + 7 + 7+ 7
on

2 + 2 + 2 + 2 + 2
+ 2 + 2 + 2
pegs

8 + 8 + 8 + 8 + 8 + 8
the

5 + 5 + 5 + 5 + 5
sherbet

Clue 2 - More or Less

46 + 16	**>**	23 + 35
5 × 3	**>**	3 × 2
53 – 19	**<**	67 – 29
2 × 8	**>**	4 × 3
50 ÷ 10	**<**	24 ÷ 2
24 + 14	**<**	52 – 11
4 × 5	**<**	10 × 3
25 ÷ 5	**<**	20 ÷ 2

There are more **<** signs so the culprit is in **year 4.**

Clue 3: Work it Out
Answer: **not male**

Clue 4: What's the Problem?

30 **chaos**	6 lost	15 coats
3 blonde	**35** **cloakroom**	10 they
16 **the**	12 brown	**18** **maker**
2 red	**4** **hair**	**5** **black**
8 **has**	9 strands	20 discovered

Answer: **The cloakroom chaos maker has black hair.**

Clue 5: Tens and Hundreds

449 **culprit**	429 two	20 lost	**322** **have**
353 had	**140** **size**	**300** **shoes**	332 wasn't
29 **must**	400 feet	21 dropped	303 discovered
414 thirteen	**124** **the**	104 there	**415** **one**

The culprit must have size one shoes.

The cloakroom chaos culprit is Natalia.