The Mystery of the Missing Chocolates Valentine's Day Maths Mystery Game

In a small junior school, a teacher bought a delicious box of chocolates to share as a Valentine's Day treat. However, as they opened the cupboard where the chocolates were kept, they discovered that the Valentine treats had been moved! Quickly, the children began searching the school for the missing chocolates.

Solve the clues to work out who found the missing chocolates.

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Name	Boy or Girl	Hair Colour	Year Group	Favourite Subject	Favourite Colour
Ava	Girl	Ginger	3	Music	Blue
Balvinder	Girl	Black	6	Music	Red
Carter	Boy	Brown	5	Computing	Pink
Destiny	Girl	Ginger	3	Maths	Green
Elias	Boy	Brown	4	Music	Yellow
Fred	Boy	Ginger	6	Music	Yellow
Gurvinder	Boy	Black	5	Computing	Green
Harry	Boy	Blonde	6	Science	Yellow
Isla	Girl	Black	4	Maths	Blue
Jack	Boy	Ginger	3	English	Blue
Kaylee	Girl	Black	4	Computing	Pink
Li	Boy	Brown	5	English	Red
Malik	Boy	Blonde	3	Maths	Blue
Nikita	Girl	Ginger	6	Computing	Green
Oscar	Boy	Blonde	4	Maths	Red
Poppy	Girl	Brown	5	Science	Red
Quinn	Boy	Brown	3	English	Green
Rhys	Boy	Brown	5	Computing	Blue
Selma	Girl	Black	4	English	Pink
Terrence	Boy	Ginger	6	Maths	Green
Uri	Girl	Black	5	English	Pink
Victoria	Girl	Blonde	3	Computing	Pink
William	Boy	Black	4	English	Green
Xanthe	Girl	Black	5	Computing	Yellow
Yaseem	Boy	Brown	6	English	Red
Zoe	Girl	Blonde	4	Science	Red

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Match the colours to the numbers.

Clue 1: Missing Number Problems

Solve the following missing number problems.

The missing number that occurs the most will give a clue about the pupil who found the chocolates.

☐ × 3 = 57	☐ × 4 = 64	☐ × 4 = 68
3 × ☐ = 48	☐ ÷ 4 = 4	8 × ☐ = 128
☐ × 4 = 76	57 ÷ ☐ = 3	☐ × 3 = 51

16	17	19
The pupil doesn't have brown hair.	The pupil doesn't have blonde hair.	The pupil doesn't have ginger hair.

Clue: _____

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Clue 2: Multiplication Tables

Find a path through the maze by colouring in the multiplication facts that are correct.

The path will reveal a clue about the pupil who found the chocolates.

START	3 × 12 = 36	4 × 8 = 32	8 × 2 = 16	9 × 3 = 27
4 × 4 = 12	5 × 8 = 50	3 × 7 = 25	6 × 4 = 28	8 × 2 = 16
7 × 4 = 21	8 × 9 = 81	3 × 4 = 14	4 × 5 = 20	8 × 7 = 56
6 × 3 = 16	3 × 4 = 12	4 × 12 = 48	8 × 11 = 88	12 × 3 = 32
12 × 4 = 48	8 × 11 = 88	3 × 3 = 6	4 × 1 = 8	8 × 11 = 96
3 × 11 = 33	9 × 4 = 44	10 × 8 = 88	3 × 1 = 6	12 × 3 = 48
Their favourite subject isn't maths.	Their favourite subject isn't computing.	Their favourite subject isn't science.	Their favourite subject isn't English.	Their favourite subject isn't music.

Clue: _____

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Clue 3: Multiplication and Division

Find the answers to these calculations and cross them off in the grid.

The **remaining** box will give you a clue about the pupil who found the chocolates.

	8	4		6	8		5	8		6	7
x		4	x		8	x		3	x		3
	7	5		9	6		5	1		3	6
x		4	x		5	x		3	x		3

336	201	480
blue or yellow	green or pink	yellow or red
174	544	474
blue or green	pink or yellow	red or green
153	108	300
pink or blue	pink or red	green or yellow

Clue: The pupil who found the chocolates has a favourite colour of_____ or_____.

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Clue 4: Time

Are these maths statements true or false?

If the statement is true, put a tick. If it is false, put a cross.

Count the number of ticks and crosses.

If there are more ticks than crosses, the pupil who found the chocolates is a boy.

If there are more crosses than ticks, the pupil who found the chocolates is a girl.

	True ✓	False ✗
There are 60 seconds in one minute.		
There are 30 days in January.		
There are 180 seconds in 3 minutes.		
There are 31 days in March.		
There are 100 seconds in 2 minutes.		
There are 30 days in February.		
April and June both have 30 days.		
November and December both have 31 days.		
There are 365 days in a year.		
Total		

Clue: The pupil who found the chocolates is a boy / a girl.
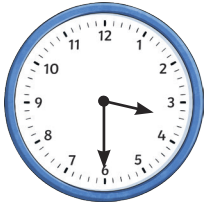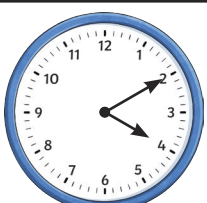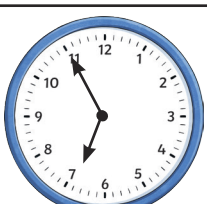
(Circle the correct answer.)

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Clue 5: Clocks

In each row, colour the time that is shown on the analogue clock.

The column with the most correct answers will tell you which year group the pupil who found the chocolates is in.

	Half past three	2:30	3 o'clock	Half past four
	6:45	7:45	7:15	6:15
	11:10	Twenty past 11	11:30	Quarter past 11
	3:50	4:15	4:10	4:50
	6:45	Five to seven	7:55	Quarter to seven
	3	4	5	6

Clue: The pupil who found the chocolates is in year ____.

The person who was responsible for finding the chocolates is:

_____

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Clue 1: Missing Number Problems

Solve the following missing number problems.

The missing number that occurs the most will give a clue about the pupil who found the chocolates.

19 × 3 = 57	**16** × 4 = 64	**17** × 4 = 68
3 × **16** = 48	**16** ÷ 4 = 4	8 × **16** = 128
19 × 4 = 76	57 ÷ **19** = 3	**17** × 3 = 51

16	17	19
The pupil doesn't have brown hair.	The pupil doesn't have blonde hair.	The pupil doesn't have ginger hair.

Clue: _The pupil doesn't have brown hair._

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Clue 2: Multiplication Tables

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Their favourite subject isn't maths.	Their favourite subject isn't computing.	Their favourite subject isn't science.	Their favourite subject isn't English.	Their favourite subject isn't music.

Clue: **Their favourite subject isn't maths.**

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Clue 3: Multiplication and Division

Find the answers to these calculations and cross them off in the grid.

The **remaining** box will give you a clue about the pupil who found the chocolates.

	8	4		6	8		5	8		6	7
x		4	x		8	x		3	x		3
3	**3**	**6**	**5**	**4**	**4**	**1**	**7**	**4**	**2**	**0**	**1**
	7	5		9	6		5	1		3	6
x		4	x		5	x		3	x		3
3	**0**	**0**	**4**	**8**	**0**	**1**	**5**	**3**	**1**	**0**	**8**

336 blue or yellow	201 green or pink	480 yellow or red
174 blue or green	544 pink or yellow	**474** **red or green**
153 pink or blue	108 pink or red	300 green or yellow

Clue: The pupil who found the chocolates has a favourite colour of **red** or **green**.

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There are 30 days in January.		✗
There are 180 seconds in 3 minutes.	✓	
There are 31 days in March.	✓	
There are 100 seconds in 2 minutes.		✗
There are 30 days in February.		✗
April and June both have 30 days.	✓	
November and December both have 31 days.		✗
There are 365 days in a year.	✓	
Total	**5**	**4**

Clue: The pupil who found the chocolates is **a boy** / a girl.
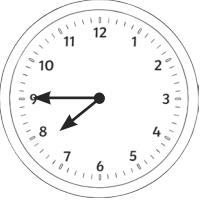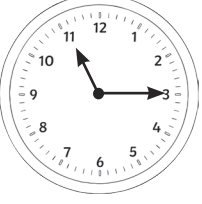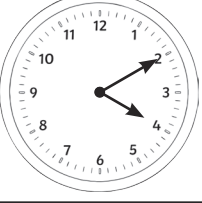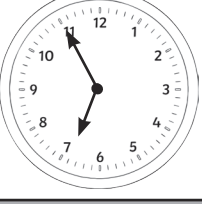
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	11:10	Twenty past 11	11:30	**Quarter past 11**
	3:50	4:15	**4:10**	4:50
	6:45	**Five to seven**	7:55	Quarter to seven
	3	4	5	6

Clue: The pupil who found the chocolates is in year **4.**

The person who was responsible for finding the chocolates is:

William