The Mystery of the Missing Red Rose

In a small junior school, the children each made a Valentine's Day card and a paper rose. At the end of the day, just before home time, the teacher handed out the children's work. Sadly, the teacher couldn't find one red rose! Immediately, the children began searching for the flower.

Solve the clues to find out who found the rose.

Good luck!

The Mystery of the Missing Red Rose

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	Blonde	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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Clue 1: Fractions of Amounts

Solve the following problems.

The solution that occurs the most will give a clue about the pupil who found the red rose.
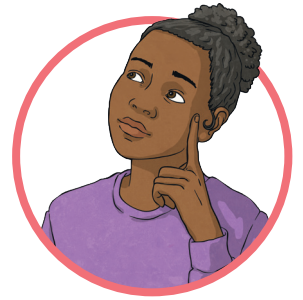
$\frac{3}{5}$ of 20 =	$\frac{2}{5}$ of 45 =	$\frac{1}{4}$ of 60 =
$\frac{3}{8}$ of 48 =	$\frac{5}{8}$ of 24 =	$\frac{2}{5}$ of 30 =
$\frac{6}{13}$ of 26 =	$\frac{3}{8}$ of 40 =	$\frac{4}{9}$ of 27 =

12	15	18
The pupil who found the rose doesn't have blonde hair.	The pupil who found the rose doesn't have black hair.	The pupil who found the rose doesn't have brown hair.

Clue: The pupil who found the rose doesn't have _____ hair.

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Clue 2: Equivalent Fractions

Find a path through the maze by colouring in the correct equivalent fractions.

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

START	$\frac{3}{4} = \frac{6}{9}$	$\frac{1}{2} = \frac{4}{8}$	$\frac{2}{3} = \frac{6}{9}$	$\frac{1}{4} = \frac{3}{12}$
$\frac{5}{6} = \frac{10}{12}$	$\frac{1}{6} = \frac{3}{24}$	$\frac{1}{3} = \frac{3}{9}$	$\frac{1}{2} = \frac{3}{8}$	$\frac{4}{5} = \frac{8}{10}$
$\frac{5}{8} = \frac{10}{16}$	$\frac{1}{2} = \frac{3}{6}$	$\frac{1}{4} = \frac{2}{8}$	$\frac{2}{3} = \frac{5}{6}$	$\frac{7}{8} = \frac{14}{16}$
$\frac{3}{5} = \frac{5}{10}$	$\frac{3}{4} = \frac{5}{8}$	$\frac{4}{10} = \frac{3}{5}$	$\frac{9}{10} = \frac{2}{3}$	$\frac{1}{8} = \frac{3}{24}$
$\frac{7}{8} = \frac{15}{16}$	$\frac{1}{2} = \frac{16}{32}$	$\frac{2}{5} = \frac{1}{3}$	$\frac{5}{6} = \frac{10}{12}$	$\frac{5}{8} = \frac{15}{24}$
$\frac{3}{9} = \frac{1}{3}$	$\frac{9}{10} = \frac{18}{20}$	$\frac{3}{8} = \frac{7}{20}$	$\frac{2}{7} = \frac{4}{14}$	$\frac{1}{2} = \frac{4}{9}$
The pupil's favourite subject isn't **maths.**	The pupil's favourite subject isn't **computing.**	The pupil's favourite subject isn't **science.**	The pupil's favourite subject isn't **English.**	The pupil's favourite subject isn't **music.**

Clue: The pupil's favourite subject isn't _____.

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Clue 3: Addition and Subtraction of Fractions

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

The one **remaining** box will give you a clue about the person who found the rose.

$\dfrac{3}{8} + \dfrac{2}{8} =$	$\dfrac{3}{5} + \dfrac{1}{5} =$
$\dfrac{3}{10} + \dfrac{4}{10} =$	$\dfrac{3}{12} + \dfrac{4}{12} =$
$\dfrac{6}{8} - \dfrac{3}{8} =$	$\dfrac{4}{5} - \dfrac{1}{5} =$
$\dfrac{11}{12} - \dfrac{6}{12} =$	$\dfrac{9}{10} - \dfrac{6}{10} =$

$\dfrac{5}{8}$ blue or yellow	$\dfrac{3}{5}$ green or pink	$\dfrac{7}{12}$ yellow or red
$\dfrac{3}{8}$ blue or green	$\dfrac{9}{10}$ pink or yellow	$\dfrac{7}{10}$ red or green
$\dfrac{5}{12}$ pink or blue	$\dfrac{3}{10}$ pink or red	$\dfrac{4}{5}$ green or yellow

Clue: The pupil who found the rose has a favourite colour of _____ or _____.
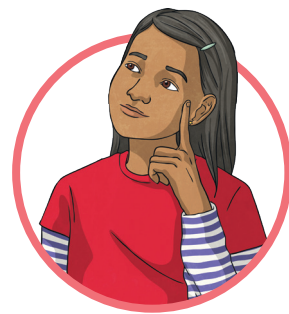
The Mystery of the Missing Red Rose

Clue 4: Time

Are these maths statements true or false?
If a 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 person who found the flower is a boy.

If there are more crosses than ticks, the person who found the flower is a girl.

	True ✓	False ✗
There are 60 minutes in an hour.		
There are 14 days in a week.		
There are 120 minutes in 2 seconds.		
There are 12 months in a year.		
Four hours is 240 minutes.		
One and a half minutes is 100 seconds.		
There are 13 months in a leap year.		
28 days is four weeks.		
Half an hour is 25 minutes.		
Total		

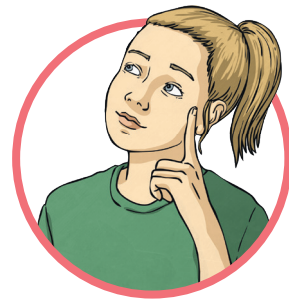**Clue:** The pupil who found the rose is a boy / girl.

(Circle the correct answer.)

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Clue 5: Clocks

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

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

	01:30	12:50	12:30	01:20
09:10				
	14:45	04:09	05:15	04:45
19:15				
	11:55	03:50	22:55	23:05
	3	**4**	**5**	**6**

Clue: The pupil who found the rose is in year_____.

(Circle the correct answer.)

The pupil who found the rose is:_____.

The Mystery of the Missing Red Rose **Answers**

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	Blonde	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

The Mystery of the Missing Red Rose **Answers**

Clue 1: Fractions of Amounts

Solve the following problems.

The solution that occurs the most will give a clue about the pupil who found the red rose.

$\frac{3}{5}$ of 20 = **12**	$\frac{2}{5}$ of 45 = **18**	$\frac{1}{4}$ of 60 = **15**
$\frac{3}{8}$ of 48 = **18**	$\frac{5}{8}$ of 24 = **15**	$\frac{2}{5}$ of 30 = **12**
$\frac{6}{13}$ of 26 = **12**	$\frac{3}{8}$ of 40 = **15**	$\frac{4}{9}$ of 27 = **12**

12	15	18
The pupil who found the rose doesn't have blonde hair.	The pupil who found the rose doesn't have black hair.	The pupil who found the rose doesn't have brown hair.

Clue: The pupil who found the rose doesn't have _____**blonde**_____ hair.

The Mystery of the Missing Red Rose **Answers**
Clue 2: Equivalent Fractions

Find a path through the maze by colouring in the correct equivalent fractions.

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

START	$\frac{3}{4} = \frac{6}{9}$	$\frac{1}{2} = \frac{4}{8}$	$\frac{2}{3} = \frac{6}{9}$	$\frac{1}{4} = \frac{3}{12}$
$\frac{5}{6} = \frac{10}{12}$	$\frac{1}{6} = \frac{3}{24}$	$\frac{1}{3} = \frac{3}{9}$	$\frac{1}{2} = \frac{3}{8}$	$\frac{4}{5} = \frac{8}{10}$
$\frac{5}{8} = \frac{10}{16}$	$\frac{1}{2} = \frac{3}{6}$	$\frac{1}{4} = \frac{2}{8}$	$\frac{2}{3} = \frac{5}{6}$	$\frac{7}{8} = \frac{14}{16}$
$\frac{3}{5} = \frac{5}{10}$	$\frac{3}{4} = \frac{5}{8}$	$\frac{4}{10} = \frac{3}{5}$	$\frac{9}{10} = \frac{2}{3}$	$\frac{1}{8} = \frac{3}{24}$
$\frac{7}{8} = \frac{15}{16}$	$\frac{1}{2} = \frac{16}{32}$	$\frac{2}{5} = \frac{1}{3}$	$\frac{5}{6} = \frac{10}{12}$	$\frac{5}{8} = \frac{15}{24}$
$\frac{3}{9} = \frac{1}{3}$	$\frac{9}{10} = \frac{18}{20}$	$\frac{3}{8} = \frac{7}{20}$	$\frac{2}{7} = \frac{4}{14}$	$\frac{1}{2} = \frac{4}{9}$
The pupil's favourite subject isn't **maths.**	The pupil's favourite subject isn't **computing.**	The pupil's favourite subject isn't **science.**	The pupil's favourite subject isn't **English.**	The pupil's favourite subject isn't **music.**

Clue: The pupil's favourite subject isn't _____ **English** _____.

The Mystery of the Missing Red Rose **Answers**

Clue 3: Addition and Subtraction of Fractions

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

The one **remaining** box will give you a clue about the person who found the rose.

$\dfrac{3}{8} + \dfrac{2}{8} = \dfrac{5}{8}$	$\dfrac{3}{5} + \dfrac{1}{5} = \dfrac{4}{5}$
$\dfrac{3}{10} + \dfrac{4}{10} = \dfrac{7}{10}$	$\dfrac{3}{12} + \dfrac{4}{12} = \dfrac{7}{12}$
$\dfrac{6}{8} - \dfrac{3}{8} = \dfrac{3}{8}$	$\dfrac{4}{5} - \dfrac{1}{5} = \dfrac{3}{5}$
$\dfrac{11}{12} - \dfrac{6}{12} = \dfrac{5}{12}$	$\dfrac{9}{10} - \dfrac{6}{10} = \dfrac{3}{10}$

$\dfrac{5}{8}$ blue or yellow	$\dfrac{3}{5}$ green or pink	$\dfrac{7}{12}$ yellow or red
$\dfrac{3}{8}$ blue or green	$\dfrac{9}{10}$ pink or yellow	$\dfrac{7}{10}$ red or green
$\dfrac{5}{12}$ pink or blue	$\dfrac{3}{10}$ pink or red	$\dfrac{4}{5}$ green or yellow

Clue: The pupil who found the rose has a favourite colour of _____**pink**_____ or _____**yellow**_____.

The Mystery of the Missing Red Rose **Answers**

Clue 4: Time

Are these maths statements true or false? If a 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 person who found the flower is a boy.

If there are more crosses than ticks, the person who found the flower is a girl.

	True ✓	False ✗
There are 60 minutes in an hour.	✓	
There are 14 days in a week.		✗
There are 120 minutes in 2 seconds.		✗
There are 12 months in a year.	✓	
Four hours is 240 minutes.	✓	
One and a half minutes is 100 seconds.		✗
There are 13 months in a leap year.		✗
28 days is four weeks.	✓	
Half an hour is 25 minutes.		✗
Total	4	5

Clue: The pupil who found the rose is a boy / **girl.**

(Circle the correct answer.)

The Mystery of the Missing Red Rose **Answers**

Clue 5: Clocks

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

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

	3	**4**	**5**	**6**
12:00 (analogue)	01:30	12:50	**12:30**	01:20
09:10 (digital)	clock	clock (shaded)	clock	clock
9:22 (analogue)	14:45	04:09	05:15	**04:45**
19:15 (digital)	clock (shaded)	clock	clock	clock
11:57 (analogue)	11:55	03:50	**22:55**	23:05

Clue: The pupil who found the rose is in year_____**5**_____.

(Circle the correct answer.)

The pupil who found the rose is:_____**Xanthe**_____.