Mystery of the Missing Leeks on St David's Day

Maths Mystery Game

One of our traditions on Saint David's Day is wearing a leek. Do you know why? What about investigating the reason why?

In an after school club, the children have worn their Welsh costumes to celebrate Saint David's Day and are preparing to cook cawl for supper. After gathering the ingredients and preparing a demonstration, the teacher realises that the leeks are missing! Without that ingredient, the cawl won't be very tasty!

Quickly, the children begin searching for the missing leeks. Solve these problems and reveal clues to find out who found the missing leeks. Good luck!

Person	Group	Favourite Colour	Favourite Hobby	Age
Andrew	A	Red	Cycling	9
Beca	B	Blue	Cycling	10
Catrin	B	Red	Football	11
Dewi	A	Blue	Reading	8
Evan	A	Yellow	Swimming	8
Fay	B	Yellow	Reading	9
Gwen	B	Blue	Swimming	10
Heti	B	Green	Cycling	9
Isobel	B	Blue	Football	11
John	A	Green	Reading	11
Kay	B	Blue	Football	8
Lewis	A	Green	Swimming	10
Matilda	B	Yellow	Swimming	9
Nicolas	A	Red	Football	10
Owain	A	Blue	Reading	11
Peter	A	Yellow	Cycling	11
Robin	A	Red	Reading	10
Sion	A	Green	Cycling	11
Trystan	A	Yellow	Swimming	9
Una	B	Blue	Swimming	8
Violet	B	Green	Cycling	8
Ynyr	A	Red	Football	10

Clue 1

Work out which of the daffodils show correct calculations.

If there are more correct than incorrect, the person that found the missing leeks is from group B.

If there are more incorrect than correct, the person that found the missing leeks is from group A.

154 + 500 = 554	851 - 400 = 451	300 + 286 = 586
756 - 230 = 520	920 - 600 = 320	265 + 300 = 295
124 + 470 = 584	493 - 280 = 213	500 - 260 = 340

The person that found the missing leeks is from group _____ .

Clue 2

Solve each calculation and then sort the answers into groups.

The group with the most answers will tell you the favourite colour of the person that found the missing leeks.

36 ÷ 6	12 × 2	45 ÷ 6	6 × 3
4 × 3	121 ÷ 11	11 × 2	60 ÷ 6
4 × 4	48 ÷ 12	5 × 3	6 × 4
84 ÷ 7	3 × 7	7 × 2	42 ÷ 6

1 - 6		Red
7 - 12		Blue
13 - 18		Green
19 - 24		Yellow

The favourite colour of the person that found the missing leeks is _____ .

Clue 3

Sort the following numbers into the correct groups. Some numbers will belong in more than one group.

The group with the most numbers will tell you the favourite hobby of the person that found the missing leeks.

| 36 | 9 | 72 | 3 | 1 | 4 | 15 | 63 | 6 | 30 | 85 | 25 |

Even Numbers
(Swimming)

Multiples of 5
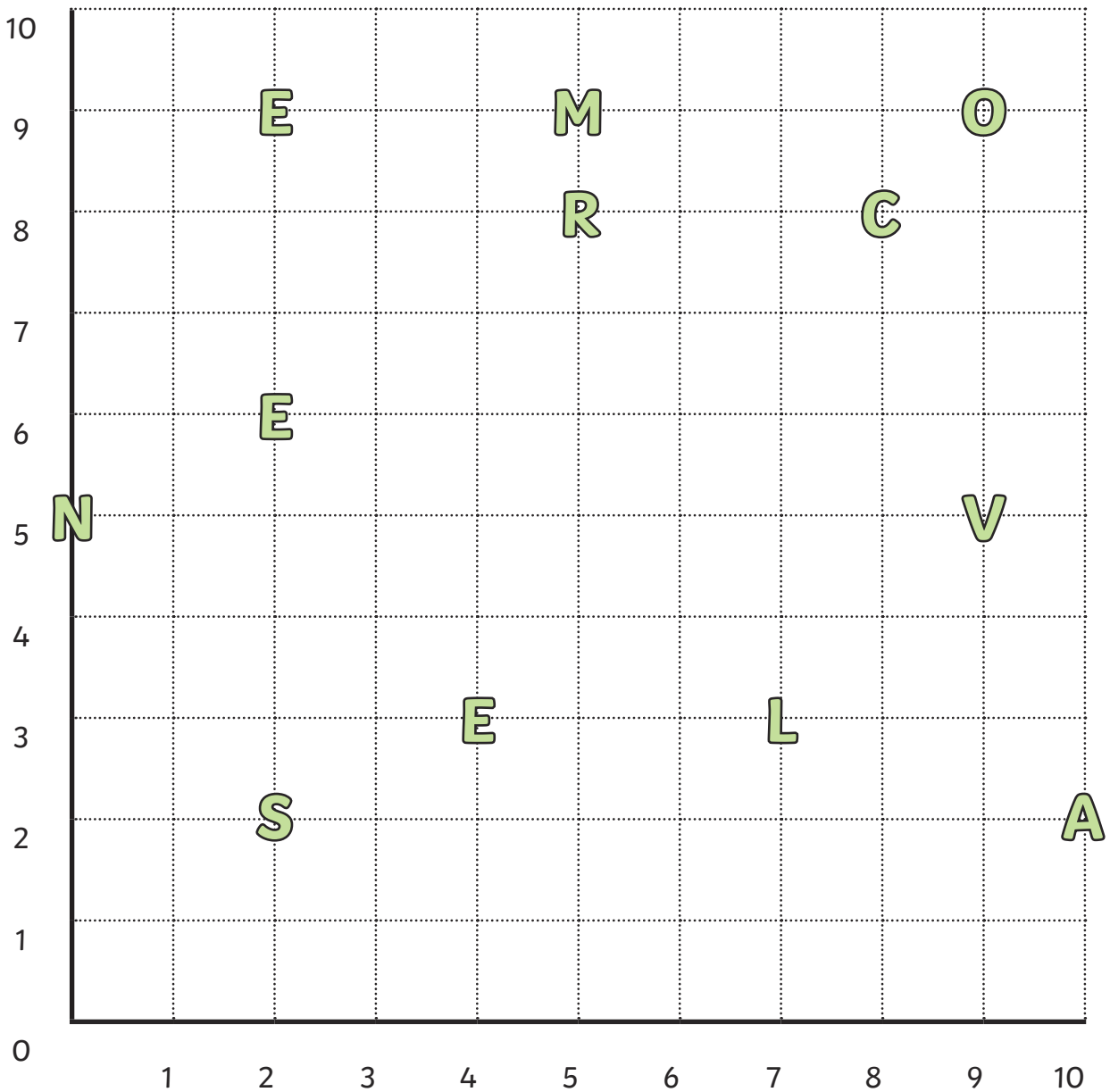(Football)

Greater than 50
(Cycling)

Factors of 36
(Reading)

The favourite hobby of the person that found the missing leeks is _____ .

Clue 4

Find the letter given at each of the following coordinates to spell out the age of the person who found the missing leeks.

(2, 6)	(7, 3)	(4, 3)	(9, 5)	(2, 9)	(0, 5)

The age of the person that found the missing leeks is _____ .

Answers

Clue 1

The incorrect calculations are:

154 + 500 = 554

756 - 230 = 520

265 + 300 = 295

124 + 470 = 584

500 - 260 = 340

The correct calculations are:

851 - 400 = 451

300 + 286 = 586

920 - 600 = 320

493 - 280 = 213

The person that found the missing leeks is from **group A**.

Clue 2

1 - 6	36 ÷ 6, 45 ÷ 9, 48 ÷ 12	Red
7 - 12	**4 × 3, 121 ÷ 11, 60 ÷ 6, 84 ÷ 7, 42 ÷ 6**	**Blue**
13 - 18	6 × 3, 4 × 4, 5 × 3, 7 × 2	Green
19 - 24	12 × 2, 11 × 2, 6 × 4, 3 × 7	Yellow

The favourite colour of the person that found the missing leeks is **blue**.

Clue 3

Even numbers (Swimming)	36, 6, 4, 30, 72
Multiples of 5 (Football	30, 15, 85, 25
Greater than 50 (Cycling)	72, 85, 63
Factors of 36 (Reading)	**36, 1, 6, 9, 4, 3**

The favourite hobby of the person that found the missing leeks is **reading**.

Clue 4

(2, 6)	(7, 3)	(4, 3)	(9, 5)	(2, 9)	(0, 5)
E	**L**	**E**	**V**	**E**	**N**

The age of the person that found the missing leeks is **eleven (11)**.

The person that found the missing leeks is **Owain**.