

# The Mystery of the Mixed-Up Football Shirts

It is the day of the final match in a football tournament. This is the day that the players have all been waiting for! They are feeling nervous, but they are excited to get into their football kits. However, when they finally open up their bags, they see a huge problem and it doesn't take long for chaos to follow!

All of the numbers and names on the players' football shirts have been mixed up! If the team want to take part in the final, they must find the culprit and fix this problem!

Solve the clues to find out which member of the opposing team has played this practical joke on the players.

Good luck!



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| Name      | Male or Female | Age | Hair Colour | Favourite Colour | Location       |
|-----------|----------------|-----|-------------|------------------|----------------|
| Adam      | Male           | 15  | Brown       | Red              | Changing room  |
| Bethany   | Female         | 13  | Blonde      | Blue             | Football pitch |
| Casper    | Male           | 12  | Black       | Green            | Sideline       |
| Daniel    | Male           | 14  | Ginger      | Yellow           | Changing room  |
| Emily     | Female         | 11  | Brown       | Red              | Football pitch |
| Fran      | Female         | 16  | Blonde      | Blue             | Sideline       |
| George    | Male           | 13  | Ginger      | Yellow           | Football pitch |
| Grace     | Female         | 15  | Black       | Green            | Changing room  |
| Harry     | Male           | 12  | Brown       | Red              | Sideline       |
| Henry     | Male           | 14  | Blonde      | Blue             | Changing room  |
| Isaac     | Male           | 11  | Black       | Green            | Football pitch |
| Jacob     | Male           | 16  | Ginger      | Yellow           | Sideline       |
| Isobel    | Female         | 15  | Brown       | Red              | Changing room  |
| Julio     | Male           | 13  | Blonde      | Blue             | Football pitch |
| Magdalena | Female         | 12  | Black       | Green            | Sideline       |
| Marcel    | Male           | 14  | Ginger      | Yellow           | Changing room  |
| Ola       | Female         | 11  | Brown       | Red              | Football pitch |
| Olivia    | Female         | 16  | Blonde      | Blue             | Sideline       |
| Samir     | Male           | 12  | Black       | Green            | Changing room  |
| Sara      | Female         | 14  | Ginger      | Yellow           | Football pitch |
| Terri     | Female         | 17  | Brown       | Red              | Sideline       |
| Thomas    | Male           | 16  | Blonde      | Blue             | Changing room  |

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## Clue 1: Rearrange the Words

Solve the problems and circle the correct answers in the grid. Combine the circled words to complete the first clue.

There are 462 fans at a football match and  $\frac{1}{3}$  of them are girls. How many of the fans are boys?

A coach seats 52 people. How many coaches will be needed to transport 724 supporters to their away match?

In the crowd of a football match, there are 1746 red scarves, 764 blue scarves and 904 green scarves. How many scarves are there altogether?

Everyone who took part in a school football tournament was given a medal. The number of medals given out was a multiple of 6, between 90 and 120, with a digit total of 6. How many medals were given out?

On a non-uniform day,  $\frac{3}{5}$  of the children wear a football shirt. There are 320 children altogether.

How many children wore a football shirt?

The cost of hiring a coach to transport a team is calculated using the following formula:

$$(\text{number of players in the team} \times 75) + 43$$

How much would it cost a team of 11 players to hire the coach?

In a football tournament, team A scored 84 goals. Team B scored  $\frac{5}{7}$  of this amount. How many goals did team B score?

Player A does 8 penalty kick practice shots every day. Player B does 50% more penalty kick practice shots every day. How many penalty kick practice shots do they do altogether over one week?

|                  |              |               |              |
|------------------|--------------|---------------|--------------|
| 308<br>practical | 868<br>have  | 237<br>black  | 14<br>not    |
| 3414<br>blonde   | 140<br>the   | 420<br>brown  | 192<br>joker |
| 114<br>does      | 152<br>white | 126<br>ginger | 60<br>hair   |

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

\_\_\_\_\_

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## Clue 2: Cross It Off

Solve the multiplication problems and cross off the correct answers that appear in the grid. The remaining clue that is **not** crossed off will reveal the age of the practical joker.

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| $18 \times 7 =$ | $34 \times 8 =$ | $55 \times 6 =$ |
| $26 \times 9 =$ | $76 \times 5 =$ | $85 \times 4 =$ |
| $97 \times 3 =$ | $28 \times 9 =$ | $44 \times 6 =$ |

|  |   |  |                                      |  |
|--|---|--|--------------------------------------|--|
| 234<br>Their age is not a multiple of 2. | 330<br>Their age is a multiple of 5.    | 350<br>Their age is not a multiple of 4. | 252<br>Their age is a prime number.  | 380<br>Their age is not a square number. |
| 126<br>Their age is a multiple of 4.     | 264<br>Their age is not a prime number. | 340<br>Their age is a square number.     | 272<br>Their age is a multiple of 2. | 291<br>Their age is not a multiple of 5. |

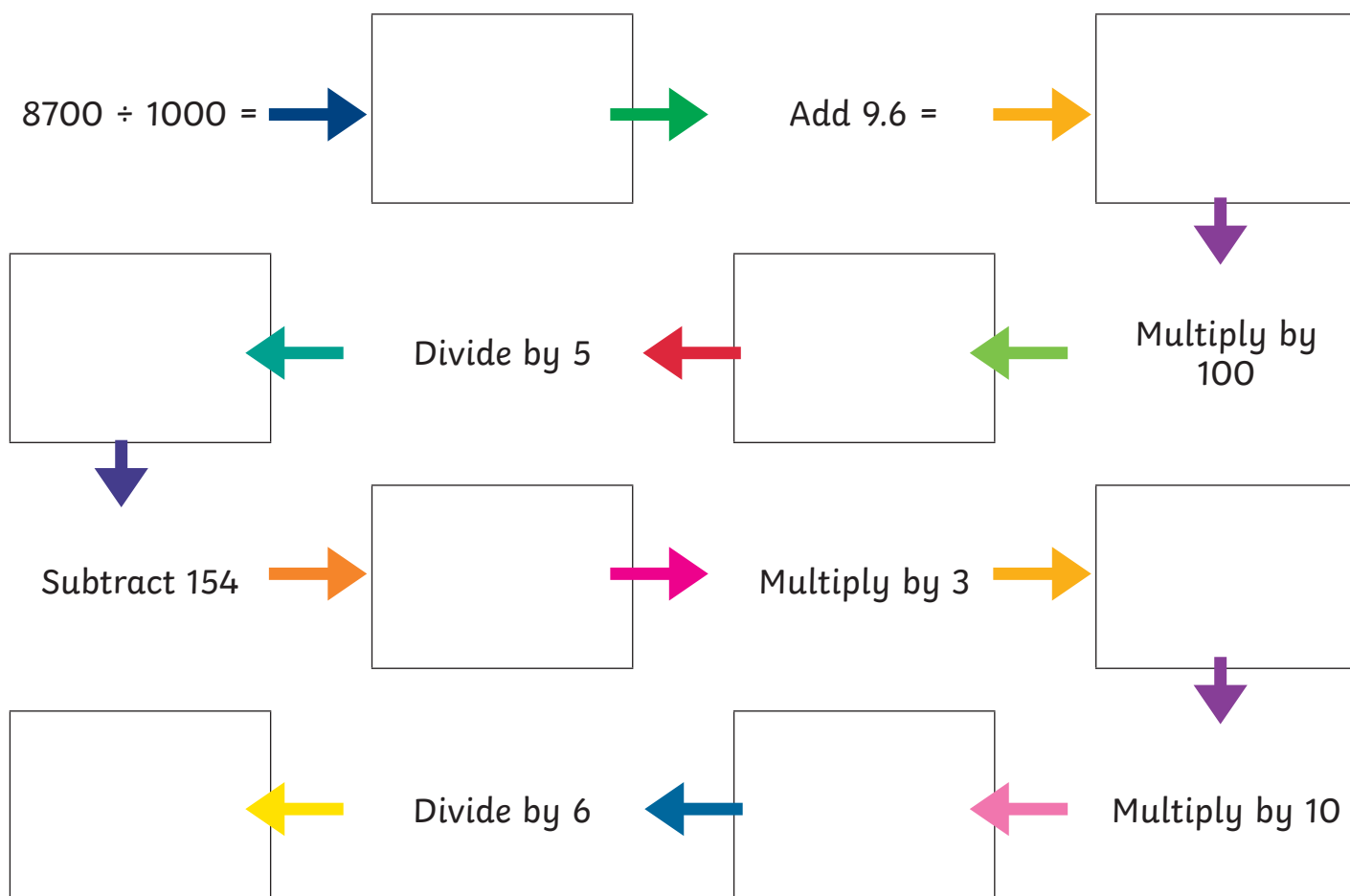
Clue 2: \_\_\_\_\_



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## Clue 3: Number Maze

Follow the instructions to discover a clue about the practical joker's favourite colour.



The practical joker's favourite colour is:

|            |              |              |                |
|------------|--------------|--------------|----------------|
| red<br>601 | blue<br>1600 | green<br>160 | yellow<br>1060 |
|------------|--------------|--------------|----------------|

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



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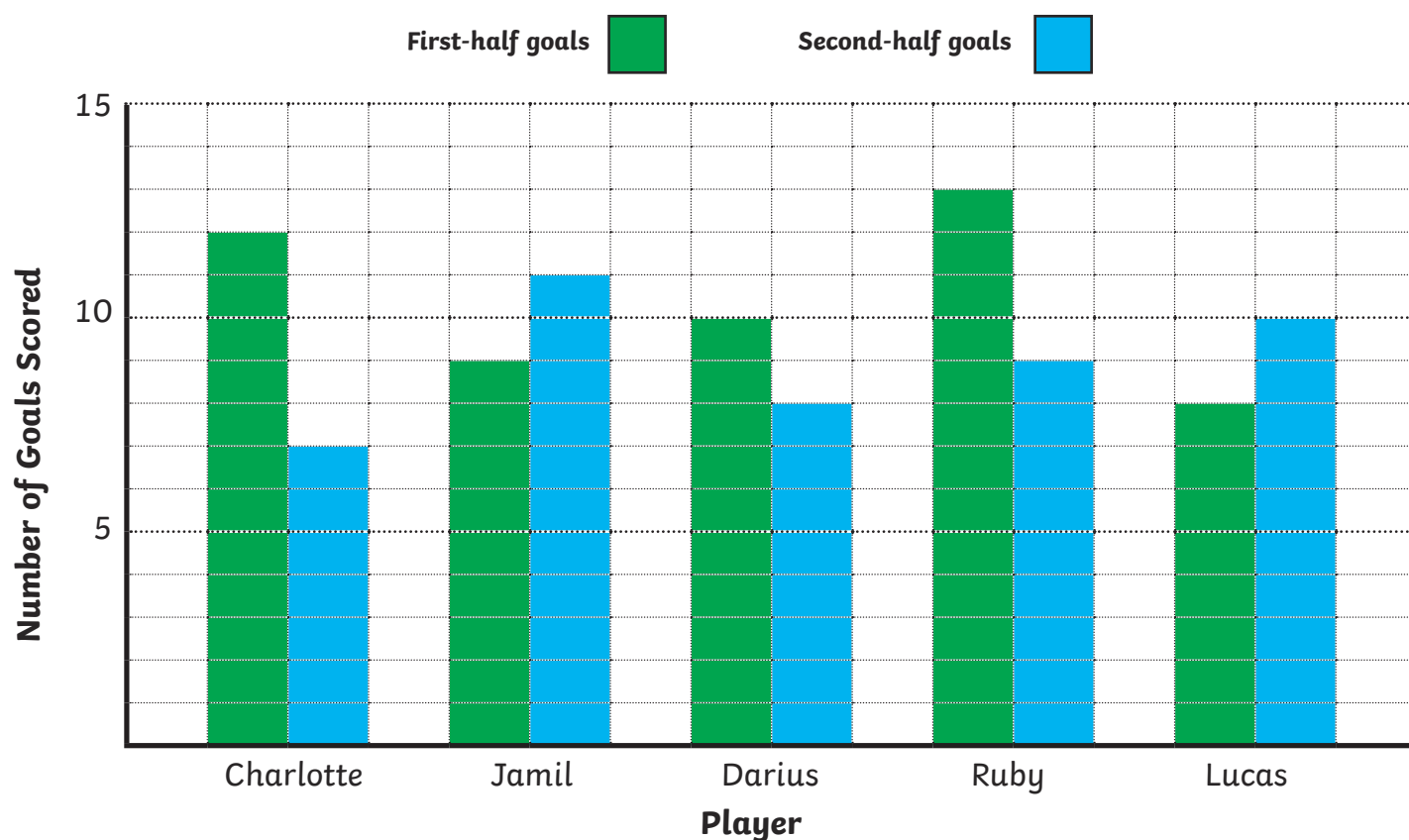
## Clue 4: Football Statistics

To reveal the next clue, decide whether the statements about the bar chart are true or false.

If there are more true answers, the practical joker is in the **changing room**.

If there are more false answers, the practical joker is on the **football pitch**.

A Bar Chart to Show the Number of Goals Scored in a Football Tournament



1. Charlotte scored 19 goals in the football tournament.
2. Darius scored 3 fewer second-half goals than first-half goals.
3. Ruby scored 6 more goals than Lucas in the tournament.
4. Jamil scored 2 more second-half goals than first-half goals.
5. Altogether, the five players scored 99 goals in the tournament.

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

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## Clue 5: Multiple Choice

Choose the correct value for  $y$  in each of the calculations.

The column with the most correct answers will tell you whether the practical joker is male or female.

|                   |                                      |  |                                      |  |
|-------------------|--------------------------------------|--|--------------------------------------|--|
| $y + 17 = 49$     | 31                                   | 32                                     | 33                                   | 34                                     |
| $y - 28 = 66$     | 94                                   | 95                                     | 96                                   | 97                                     |
| $y \div 2 = 911$  | 1820                                 | 1821                                   | 1822                                 | 1823                                   |
| $3y = 105$        | 34                                   | 35                                     | 36                                   | 37                                     |
| $34 + y = 105$    | 68                                   | 69                                     | 70                                   | 71                                     |
| $y \div 4 = 2492$ | 9968                                 | 9969                                   | 9970                                 | 9971                                   |
| $1023 - y = 290$  | 732                                  | 733                                    | 734                                  | 735                                    |
|                   | The practical joker is <b>male</b> . | The practical joker is <b>female</b> . | The practical joker is <b>male</b> . | The practical joker is <b>female</b> . |

Clue 5: \_\_\_\_\_

The practical joker is: \_\_\_\_\_

