

# The Mystery of the Missing Trophy

The crowds are cheering, banners are waving, and celebratory confetti is floating through the air.

The final match of the Football Championship has been played and preparations are underway to present the winning team with their trophy.

Whilst the winning team are running laps of the pitch, celebrating with their fans, the officials begin to look worried. They cannot find the trophy!

It should be ready to take out of its locked, glass cabinet but someone has opened it and taken it.

Help solve the mystery by finding out who has taken the missing trophy.



# The Mystery of the Missing Trophy

| Name      | Boy or Girl | Age | Hair Colour | Job          | Location       |
|-----------|-------------|-----|-------------|--------------|----------------|
| Adam      | boy         | 25  | brown       | physio       | changing room  |
| Bethany   | girl        | 31  | blonde      | footballer   | football pitch |
| Casper    | boy         | 40  | black       | referee      | side line      |
| Daniel    | boy         | 50  | ginger      | photographer | changing room  |
| Emily     | girl        | 67  | brown       | lines person | football pitch |
| Fran      | girl        | 71  | blonde      | commentator  | side line      |
| George    | boy         | 43  | black       | journalist   | changing room  |
| Grace     | girl        | 35  | ginger      | physio       | football pitch |
| Harry     | boy         | 23  | brown       | footballer   | side line      |
| Henry     | boy         | 58  | blonde      | referee      | changing room  |
| Isaac     | boy         | 68  | black       | photographer | football pitch |
| Jacob     | boy         | 78  | ginger      | lines person | side line      |
| Isobel    | girl        | 52  | brown       | commentator  | changing room  |
| Julio     | boy         | 46  | blonde      | journalist   | football pitch |
| Magdalena | girl        | 39  | black       | physio       | side line      |
| Marcel    | boy         | 24  | ginger      | footballer   | changing room  |
| Ola       | girl        | 67  | brown       | referee      | football pitch |
| Olivia    | girl        | 75  | blonde      | photographer | side line      |
| Samir     | boy         | 26  | black       | lines person | changing room  |
| Sara      | girl        | 37  | ginger      | commentator  | football pitch |
| Terri     | girl        | 49  | brown       | journalist   | side line      |
| Thomas    | boy         | 58  | blonde      | physio       | changing room  |



# The Mystery of the Missing Trophy

## Clue 1: Crack the Code

Answer the maths calculations, then use the code breaker to find the first clue.

| a  | b  | c  | d  | e  | f  | g  | h  | i  | j  | k  | l  | m  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |

| n  | o  | p  | q  | r | s | t | u | v | w | x | y | z |
|----|----|----|----|---|---|---|---|---|---|---|---|---|
| 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

|             | Answer | Letter |
|-------------|--------|--------|
| $50 - 43 =$ |        |        |
| $29 - 10 =$ |        |        |
| $48 - 26 =$ |        |        |
| $15 - 13 =$ |        |        |

|               |  |  |
|---------------|--|--|
| $14 + 12 =$   |  |  |
| $3 + 3 + 3 =$ |  |  |
| $18 + 4 =$    |  |  |

|             |  |  |
|-------------|--|--|
| $30 - 17 =$ |  |  |
| $22 - 10 =$ |  |  |
| $19 - 12 =$ |  |  |

|            | Answer | Letter |
|------------|--------|--------|
| $19 + 7 =$ |        |        |

|               |  |  |
|---------------|--|--|
| $6 + 4 + 1 =$ |  |  |
| $10 + 9 =$    |  |  |
| $18 - 16 =$   |  |  |
| $22 - 14 =$   |  |  |
| $35 - 17 =$   |  |  |
| $44 - 32 =$   |  |  |

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

# The Mystery of the Missing Trophy

## Clue 2: Crack the Code

Choose the correct answer for each missing number calculation.

The column with the most correct answers in will reveal a clue about the culprit's hair colour.

|                               |   |  |   |  |
|-------------------------------|---|--|---|--|
| $28 + \underline{\quad} = 50$ | 19                                      | 20                                       | 21                                      | 22                                       |
| $38 + \underline{\quad} = 50$ | 11                                      | 12                                       | 13                                      | 14                                       |
| $28 + \underline{\quad} = 60$ | 30                                      | 31                                       | 32                                      | 33                                       |
| $27 + \underline{\quad} = 50$ | 13                                      | 23                                       | 33                                      | 43                                       |
| $50 - \underline{\quad} = 24$ | 26                                      | 36                                       | 46                                      | 56                                       |
| $60 - \underline{\quad} = 26$ | 4                                       | 14                                       | 24                                      | 34                                       |
| $50 - \underline{\quad} = 15$ | 5                                       | 15                                       | 25                                      | 35                                       |
|                               | The culprit's hair colour is not brown. | The culprit's hair colour is not blonde. | The culprit's hair colour is not black. | The culprit's hair colour is not ginger. |

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



# The Mystery of the Missing Trophy

## Clue 3: Cross It Off

Solve the answers to the problems. Cross off the answers in the grid. The clue that is not crossed off will reveal the age of the person who has the trophy.

I'm thinking of a number.

I add 6.

The answer is 24.

What was my number?

I'm thinking of a number.

I subtract 10.

The answer is 21.

What was my number?

I'm thinking of a number.

I add 9.

The answer is 25.

What was my number?

I'm thinking of a number.

I subtract 5.

The answer is 20.

What was my number?

I'm thinking of a number.

I add 7.

The answer is 28.

What was my number?

|  |  |  |
|--|--|--|
| <p>31</p> <p>The tens digit of their age is 2.</p> | <p>25</p> <p>The tens digit of their age is 3.</p> | <p>20</p> <p>The tens digit of their age is 4.</p> |
| <p>18</p> <p>The tens digit of their age is 5.</p> | <p>16</p> <p>The tens digit of their age is 6.</p> | <p>21</p> <p>The tens digit of their age is 7.</p> |

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

# The Mystery of the Missing Trophy

## Clue 4: Maze

Find a path across the football pitch, colouring in number bonds to 100, to reveal the location of the person who took the trophy.

|               |                |           |               |                |           |
|---------------|----------------|-----------|---------------|----------------|-----------|
| <b>START</b>  | $20 + 80$      | $50 + 50$ | $10 + 10$     | $20 + 30$      | $70 + 30$ |
| $30 + 40$     | $40 + 20$      | $100 + 0$ | $80 + 20$     | $40 + 60$      | $50 + 50$ |
| $60 + 40$     | $50 + 10$      | $60 + 70$ | $70 + 10$     | $80 + 40$      | $10 + 90$ |
| $70 + 10$     | $80 + 40$      | $30 + 70$ | $0 + 100$     | $70 + 30$      | $40 + 60$ |
| $50 + 50$     | $40 + 20$      | $90 + 10$ | $50 + 10$     | $60 + 70$      | $70 + 10$ |
| $100 + 10$    | $40 + 70$      | $60 + 40$ | $30 + 40$     | $40 + 60$      | $100 + 0$ |
| $90 + 10$     | $70 - 0$       | $10 + 90$ | $55 + 1$      | $30 + 70$      | $20 + 80$ |
| Changing Room | Football Pitch | Side Line | Changing Room | Football Pitch | Side Line |

**Clue 4:** The person who took the trophy is: \_\_\_\_\_

\_\_\_\_\_

# The Mystery of the Missing Trophy

**Clue 5:** True or False

Check these maths calculations. If a calculation is **right**, put a **tick**. If it is **wrong**, put a **cross**.

Count the number of ticks and crosses.

If there are more ticks than crosses, the person who took the trophy is a **girl**.

If there are more crosses than ticks, the person who took the trophy is a **boy**.

|   | Right ✓ | Wrong ✗ |
|---|---------|---------|
| $36 + 15 = 50$                            |         |         |
| $24\text{cm} + 12\text{cm} = 36\text{cm}$ |         |         |
| $10 + 6 + 3 = 20$                         |         |         |
| $21\text{p} + 18\text{p} = 39\text{p}$    |         |         |
| thirty-two plus eleven equals forty-four  |         |         |
| $58 - 27 = 32$                            |         |         |
| $11 + 8 + 2 = 21$                         |         |         |
| $50\text{cm} - 22\text{cm} = 28\text{cm}$ |         |         |
| $45\text{p} - 19\text{p} = 26\text{p}$    |         |         |
| <b>Total</b>                              |         |         |

**Clue 5:** The person who took the trophy is a \_\_\_\_\_

The person who took the trophy is: \_\_\_\_\_

# The Mystery of the Missing Trophy Answers

## Clue 1: Crack the Code

Answer the maths calculations, then use the code breaker to find the first clue.

|             | Answer    | Letter   |
|-------------|-----------|----------|
| $50 - 43 =$ | <b>7</b>  | <b>t</b> |
| $29 - 10 =$ | <b>19</b> | <b>h</b> |
| $48 - 26 =$ | <b>22</b> | <b>e</b> |
| $15 - 13 =$ | <b>2</b>  | <b>y</b> |

|               |           |          |
|---------------|-----------|----------|
| $14 + 12 =$   | <b>26</b> | <b>a</b> |
| $3 + 3 + 3 =$ | <b>9</b>  | <b>r</b> |
| $18 + 4 =$    | <b>22</b> | <b>e</b> |

|             |           |          |
|-------------|-----------|----------|
| $30 - 17 =$ | <b>13</b> | <b>n</b> |
| $22 - 10 =$ | <b>12</b> | <b>o</b> |
| $19 - 12 =$ | <b>7</b>  | <b>t</b> |

|            | Answer    | Letter   |
|------------|-----------|----------|
| $19 + 7 =$ | <b>26</b> | <b>a</b> |

|               |           |          |
|---------------|-----------|----------|
| $6 + 4 + 1 =$ | <b>11</b> | <b>p</b> |
| $10 + 9 =$    | <b>19</b> | <b>h</b> |
| $18 - 16 =$   | <b>2</b>  | <b>y</b> |
| $22 - 14 =$   | <b>8</b>  | <b>s</b> |
| $35 - 17 =$   | <b>18</b> | <b>i</b> |
| $44 - 32 =$   | <b>12</b> | <b>o</b> |

**Clue 1:** \_\_\_\_\_ **They are not a physio.**

## Clue 2: Crack the Code

The column with the most correct answers in will reveal a clue about the culprit's hair colour.

|                         |   |  |   |   |
|-------------------------|---|--|---|---|
| $28 + \mathbf{22} = 50$ | 19                                      | 20                                       | 21                                      | <b>22</b>                                       |
| $38 + \mathbf{12} = 50$ | 11                                      | <b>12</b>                                | 13                                      | 14  |
| $28 + \mathbf{32} = 60$ | 30                                      | 31                                       | <b>32</b>                               | 33  |
| $27 + \mathbf{23} = 50$ | 13                                      | <b>23</b>                                | 33                                      | 43  |
| $50 - \mathbf{26} = 24$ | <b>26</b>                               | 36                                       | 46                                      | 56  |
| $60 - \mathbf{34} = 26$ | 4                                       | 14                                       | 24                                      | <b>34</b>                                       |
| $50 - \mathbf{35} = 15$ | 5                                       | 15                                       | 25                                      | <b>35</b>                                       |
|                         | The culprit's hair colour is not brown. | The culprit's hair colour is not blonde. | The culprit's hair colour is not black. | <b>The culprit's hair colour is not ginger.</b> |

# The Mystery of the Missing Trophy **Answers**

## Clue 3: Cross It Off

Solve the answers to the problems. Cross off the answers in the grid. The clue that is not crossed off will reveal the age of the person who has the trophy.

I'm thinking of a number.  
I add 6. The answer is 24.  
What was my number? **18**

I'm thinking of a number.  
I subtract 10. The answer is 21.  
What was my number? **31**

I'm thinking of a number.  
I add 9. The answer is 25.  
What was my number? **16**

I'm thinking of a number.  
I subtract 5. The answer is 20.  
What was my number? **25**

I'm thinking of a number.  
I add 7. The answer is 28.  
What was my number? **21**

|   |   |   |
|---|---|---|
| <del>31<br/>The tens digit of their age is 2.</del> | <del>25<br/>The tens digit of their age is 3.</del> | <b>20<br/>The tens digit of their age is 4.</b>     |
| <del>18<br/>The tens digit of their age is 5.</del> | <del>16<br/>The tens digit of their age is 6.</del> | <del>21<br/>The tens digit of their age is 7.</del> |

Clue 3:           **The tens digit of their age is 4.**

# The Mystery of the Missing Trophy **Answers**

## Clue 4: Maze

Find a path across the football pitch, colouring in number bonds to 100, to reveal the location of the person who took the trophy.

|               |                |                  |                |                |                |
|---------------|----------------|------------------|----------------|----------------|----------------|
| <b>START</b>  | <b>20 + 80</b> | <b>50 + 50</b>   | 10 + 10        | 20 + 30        | 70 + 30        |
| 30 + 40       | 40 + 20        | <b>100 + 0</b>   | <b>80 + 20</b> | <b>40 + 60</b> | <b>50 + 50</b> |
| 60 + 40       | 50 + 10        | 60 + 70          | 70 + 10        | 80 + 40        | <b>10 + 90</b> |
| 70 + 10       | 80 + 40        | <b>30 + 70</b>   | <b>0 + 100</b> | <b>70 + 30</b> | <b>40 + 60</b> |
| 50 + 50       | 40 + 20        | <b>90 + 10</b>   | 50 + 10        | 60 + 70        | 70 + 10        |
| 100 + 10      | 40 + 70        | <b>60 + 40</b>   | 30 + 40        | 40 + 60        | 100 + 0        |
| 90 + 10       | 70 - 0         | <b>10 + 90</b>   | 55 + 1         | 30 + 70        | 20 + 80        |
| Changing Room | Football Pitch | <b>Side Line</b> | Changing Room  | Football Pitch | Side Line      |

**Clue 4:** The person who took the trophy is on the side line.

# The Mystery of the Missing Trophy **Answers**

**Clue 5:** True or False

If there are more ticks than crosses, the person who took the trophy is a **girl**.  
If there are more crosses than ticks, the person who took the trophy is a **boy**.

|   | Right ✓  | Wrong ✗  |
|---|----------|----------|
| $36 + 15 = 50$                            |          | ✗        |
| $24\text{cm} + 12\text{cm} = 36\text{cm}$ | ✓        |          |
| $10 + 6 + 3 = 20$                         |          | ✗        |
| $21\text{p} + 18\text{p} = 39\text{p}$    | ✓        |          |
| thirty-two plus eleven equals forty-four  |          | ✗        |
| $58 - 27 = 32$                            |          | ✗        |
| $11 + 8 + 2 = 21$                         | ✓        |          |
| $50\text{cm} - 22\text{cm} = 28\text{cm}$ | ✓        |          |
| $45\text{p} - 19\text{p} = 26\text{p}$    | ✓        |          |
| Total                                     | <b>5</b> | <b>4</b> |

**Clue 5:** The person who took the trophy is a girl.

The person who took the trophy is: Terri