

# The Mystery of the Missing Pencil Case

Sophia is getting ready for her first day back to school. She jumps out of bed excitedly and races down the stairs for her breakfast.

Sophia loves school, especially the first day back as everything is all shiny and new. She has a new teacher, a new class, a new backpack and a new pencil case. She even has shiny new school shoes.

It is almost time to go to school so Sophia brushes her hair, washes her face and brushes her teeth. Then, she sets off walking to school.

Sophia enters school and is greeted by her new teacher. She leaves her coat and back pack on her peg and heads into class.

Later that day, Sophia needs a ruler from her pencil case. She goes to her backpack in the cloakroom only to find that it is open and her pencil case is missing.

Can you solve the mystery of the missing pencil case?



# The Mystery of the Missing Pencil Case

| Name    | Boy or Girl | Age | Hair Colour | Lunch Option | Table Team |
|---------|-------------|-----|-------------|--------------|------------|
| Amir    | Boy         | 7   | Brown       | Packed Lunch | Lions      |
| Bethany | Girl        | 6   | Blonde      | Hot Dinners  | Tigers     |
| Casper  | Boy         | 7   | Black       | Packed Lunch | Lion       |
| Daniel  | Boy         | 7   | Ginger      | Hot Dinners  | Giraffes   |
| Elena   | Girl        | 7   | Brown       | Home Dinners | Lions      |
| Frida   | Girl        | 6   | Ginger      | Packed Lunch | Tigers     |
| George  | Boy         | 6   | Black       | Hot Dinners  | Tiger      |
| Grace   | Girl        | 6   | Ginger      | Hot Dinners  | Giraffes   |
| Harry   | Boy         | 7   | Brown       | Packed Lunch | Giraffes   |
| Hassan  | Boy         | 6   | Blonde      | Home Dinners | Giraffes   |
| Isaac   | Boy         | 7   | Black       | Hot Dinners  | Lions      |
| Jacob   | Boy         | 7   | Ginger      | Hot Dinners  | Tigers     |
| Isobel  | Girl        | 6   | Ginger      | Hot Dinners  | Tiger      |
| Julio   | Boy         | 6   | Blonde      | Home Dinners | Giraffes   |
| Sophia  | Girl        | 7   | Black       | Hot Dinners  | Lions      |
| Marcel  | Boy         | 7   | Ginger      | Hot Dinners  | Tigers     |
| Ola     | Girl        | 7   | Brown       | Packed Lunch | Giraffes   |
| Olivia  | Girl        | 6   | Blonde      | Packed Lunch | Lions      |
| Samir   | Boy         | 7   | Black       | Home Dinners | Lions      |
| Shing   | Girl        | 6   | Ginger      | Hot Dinners  | Lions      |
| Terri   | Girl        | 7   | Brown       | Packed Lunch | Tigers     |
| Zamir   | Boy         | 6   | Blonde      | Home Dinners | Tigers     |

# The Mystery of the Missing Pencil Case

## Clue 1: Missing Numbers

Can you find the missing numbers?

|    |  |    |  |    |    |
|----|--|----|--|----|----|
| 12 |  | 16 |  | 20 | 22 |
|----|--|----|--|----|----|

|    |  |    |    |  |    |
|----|--|----|----|--|----|
| 20 |  | 30 | 35 |  | 45 |
|----|--|----|----|--|----|

|    |    |  |  |  |    |
|----|----|--|--|--|----|
| 22 | 24 |  |  |  | 32 |
|----|----|--|--|--|----|

|    |    |  |    |    |    |
|----|----|--|----|----|----|
| 45 | 40 |  | 30 | 25 | 20 |
|----|----|--|----|----|----|

|    |    |    |    |  |  |
|----|----|----|----|--|--|
| 20 | 30 | 40 | 50 |  |  |
|----|----|----|----|--|--|

|           |           |               |              |            |
|-----------|-----------|---------------|--------------|------------|
| 25<br>The | 70<br>boy | 65<br>girl    | 60<br>a      | 35<br>is   |
| 40<br>not | 15<br>it  | 30<br>culprit | 45<br>person | 55<br>took |

Look at the missing numbers.

Find all of the multiples of 5 and circle them on the grid above.

Write them in order and use the words to complete the first clue.



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

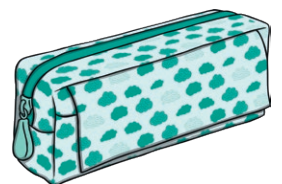
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## Clue 2: Crack the Code

Choose the correct symbol for each missing number sentence. The column with the most correct answers in will reveal a clue about the culprit's age.

|                         |                                |                                |                                |
|-------------------------|--------------------------------|--------------------------------|--------------------------------|
| 42 ____ 32              | <                              | >                              | =                              |
| 28 ____ 29              | <                              | >                              | =                              |
| 30 ____ three tens      | <                              | >                              | =                              |
| 2 tens + 4 ones ____ 23 | <                              | >                              | =                              |
| 36 ____ 20 + 16         | <                              | >                              | =                              |
| 1 ten + 8 ones ____ 19  | <                              | >                              | =                              |
| 3 tens + 8 ones ____ 38 | <                              | >                              | =                              |
| 65 ____ 56              | <                              | >                              | =                              |
| 30 + 12 ____ 32         | <                              | >                              | =                              |
|                         | The culprit is<br>5 years old. | The culprit is<br>6 years old. | The culprit is<br>7 years old. |

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



# The Mystery of the Missing Pencil Case

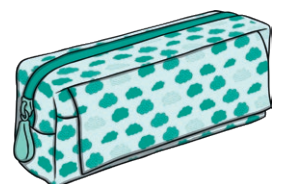
## Clue 3: Cross it Off

Solve the answers to the problems. Cross off the answers in the grid. The clue that is not crossed off will reveal more information about the culprit.

|   |   |
|---|---|
| <p>I'm thinking of a number.<br/>It has two tens.<br/>It has four ones.<br/>What is my number?</p>        | <p>I'm thinking of a number.<br/>It has one ten.<br/>It is one less than 18.<br/>What is my number?</p>               |
| <p>I'm thinking of a number.<br/>It is greater than 25 but<br/>less than 27.<br/>What is my number?</p>   | <p>I'm thinking of a number.<br/>It has three tens.<br/>Its ones digit is one more than 4.<br/>What is my number?</p> |
| <p>I'm thinking of a number.<br/>It has four tens.<br/>It is one more than 40.<br/>What is my number?</p> |   |

|   |   |   |
|---|---|---|
| <p>35<br/>The culprit's<br/>hair is brown.</p>  | <p>26<br/>The culprit's hair<br/>is blonde.</p> | <p>29<br/>The culprit's hair<br/>is ginger.</p> |
| <p>24<br/>The culprit's hair<br/>is blonde.</p> | <p>41<br/>The culprit's<br/>hair is black.</p>  | <p>17<br/>The culprit's<br/>hair is brown.</p>  |

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



# The Mystery of the Missing Pencil Case

## Clue 4: Maze

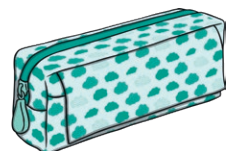
Look at the digit cards.



Find a path through the maze and colour in all the two-digit numbers that can be made using the digit cards to reveal the lunch option of the culprit.

|              |              |   |   |              |   |
|--------------|--------------|---|---|--------------|---|
| START        | 24           | $\begin{matrix} 4 \\ \text{tens} + 8 \text{ ones} \end{matrix}$ | 18  | $90 + 6$     | 19  |
| $30 + 6$     | $10 + 9$     | $50 + 8$  | 72  | $80 + 2$     | $\begin{matrix} 4 \\ \text{tens} + 8 \text{ ones} \end{matrix}$ |
| $90 + 6$     | 93           | 19  | $60 + 3$  | 69           | $\begin{matrix} 5 \\ \text{tens} + 4 \text{ ones} \end{matrix}$ |
| 16           | 36           | 75  | $\begin{matrix} 5 \\ \text{tens} + 7 \text{ ones} \end{matrix}$ | $20 + 4$     | 87  |
| $40 + 2$     | $30 + 9$     | $50 + 4$  | 16  | 31           | $90 + 3$  |
| $30 + 6$     | 63           | 45  | $90 + 1$  | 54           | $30 + 6$  |
| 24           | $21 + 1$     | $\begin{matrix} 8 \\ \text{tens} + 2 \text{ ones} \end{matrix}$ | 71  | 42           | $80 + 7$  |
| Packed Lunch | Home Dinners | Hot Dinners   | Packed Lunch  | Home Dinners | Hot Dinners   |

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



# The Mystery of the Missing Pencil Case

## Clue 5: Right or Wrong

Check these maths facts. If all the facts are right, put a tick. If any are wrong, put a cross.

If a box has been left blank, complete the correct number fact.

| Number | Write it as words | Partition it | Partition it differently | Right | Wrong |
|--------|-------------------|--------------|--------------------------|-------|-------|
| 25     |                   | $20 + 5$     |                          |       |       |
| 32     | Thirty-three      |              | $20 + 2$                 |       |       |
| 49     |                   | $40 + 9$     | $30 + 19$                |       |       |
| 54     | Fifty-four        |              | $40 + 4$                 |       |       |
| 63     |                   | $30 + 6$     |                          |       |       |
| 88     | Eighty-eight      |              | $70 + 18$                |       |       |
| 72     |                   | $70 + 2$     |                          |       |       |

Now count the number of ticks and crosses.

If there are less than 3 ticks, the culprit is on the Tigers table.

If there are more than 3 ticks, the culprit is on the Giraffes table.

If there are more than 3 crosses, the culprit is on the Lions table.

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

The person who took the pencil case is:

\_\_\_\_\_

