



# The Case of the Restricted Scroll

Grade 2 math · Addition, Place value, Subtraction, Skip counting, Missing addends · Reading level grades 1-2

Detective: \_\_\_\_\_ Date: \_\_\_\_\_

A sneaky rogue wizard has slipped into the library and taken a magical golden scroll! We must use our magic and logic to track them down. Let us solve the clues and save the school!

1. Solve each math problem. The answer is a number, and the letter beside it is what that number stands for.
2. In the clue boxes, write that letter in every box showing the same number, then read the secret clue.
3. Use each clue to cross suspects off the list. The one suspect left at the end is the culprit!

**My answer: the rogue wizard is** \_\_\_\_\_

## Possible suspects

Cross off a row as each clue rules it out. The one left at the end is the culprit.

| NAME     | FAVORITE SPELL   | MAGIC ITEM         | WRITING HAND | HAIR COLOR       | MAGIC COUNTER  |
|----------|------------------|--------------------|--------------|------------------|----------------|
| Oliver   | levitation charm | remembrall         | right handed | bright red hair  | bright light   |
| Neville  | shield charm     | pocket cauldron    | right handed | bushy brown hair | bright light   |
| Lavender | summoning charm  | marauders map      | left handed  | jet black hair   | giggle potion  |
| Cedric   | tickling charm   | marauders map      | left handed  | bushy brown hair | giggle potion  |
| Gregory  | freezing charm   | marauders map      | left handed  | bushy brown hair | giggle potion  |
| Percy    | shield charm     | marauders map      | left handed  | bushy brown hair | giggle potion  |
| George   | shield charm     | invisibility cloak | left handed  | bright red hair  | giggle potion  |
| Colin    | levitation charm | pocket cauldron    | left handed  | bushy brown hair | bright light   |
| Seamus   | tickling charm   | pocket cauldron    | left handed  | bright red hair  | silly earmuffs |
| Dean     | freezing charm   | sneakoscope        | left handed  | jet black hair   | bright light   |
| Hermione | levitation charm | marauders map      | right handed | bright red hair  | giggle potion  |
| Vincent  | tickling charm   | marauders map      | left handed  | bushy brown hair | silly earmuffs |
| Ginny    | summoning charm  | pocket cauldron    | left handed  | bright red hair  | bright light   |
| Fred     | shield charm     | remembrall         | left handed  | bushy brown hair | giggle potion  |
| Blaise   | tickling charm   | pocket cauldron    | left handed  | bright red hair  | giggle potion  |
| Ron      | tickling charm   | sneakoscope        | right handed | bright red hair  | bright light   |
| Susan    | shield charm     | marauders map      | left handed  | bright red hair  | bright light   |
| Harry    | levitation charm | remembrall         | left handed  | bright red hair  | giggle potion  |
| Pansy    | tickling charm   | sneakoscope        | left handed  | jet black hair   | giggle potion  |
| Parvati  | tickling charm   | marauders map      | left handed  | bright red hair  | giggle potion  |
| Draco    | freezing charm   | marauders map      | left handed  | bright red hair  | giggle potion  |

## CLUE 1 Addition

We need to count the spilled potion bottles. Let us add the green bottles and red bottles together to find the first clue.

Solve each problem, then write its letter in every clue box that shows the same number.

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| T  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 71 | 78 | 40 | 22 | 53 | 40 | 49 | 33 | 84 | 43 | 28 | 26 | 49 | 57 | 59 | 78 | 49 | 22 |  |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 53 | 46 | 57 | 40 | 36 | 40 | 36 | 83 | 57 | 49 | 56 | 56 |    |    |    |    |    |    |  |

$26 + 45 = \square \rightarrow \boxed{\text{T}}$

$40 + 17 = \square \rightarrow \boxed{\text{R}}$

$28 + 12 = \square \rightarrow \boxed{\text{E}}$

$56 + 28 = \square \rightarrow \boxed{\text{Y}}$

$24 + 25 = \square \rightarrow \boxed{\text{A}}$

$21 + 15 = \square \rightarrow \boxed{\text{M}}$

$16 + 12 = \square \rightarrow \boxed{\text{I}}$

$11 + 22 = \square \rightarrow \boxed{\text{K}}$

$15 + 7 = \square \rightarrow \boxed{\text{S}}$

$32 + 27 = \square \rightarrow \boxed{\text{D}}$

$35 + 43 = \square \rightarrow \boxed{\text{H}}$

$25 + 31 = \square \rightarrow \boxed{\text{L}}$

$8 + 18 = \square \rightarrow \boxed{\text{Z}}$

$18 + 25 = \square \rightarrow \boxed{\text{W}}$

$35 + 48 = \square \rightarrow \boxed{\text{B}}$

$18 + 28 = \square \rightarrow \boxed{\text{O}}$

$30 + 23 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

## CLUE 2

The library door has a secret lock. Look at the tens and ones on the dial to find the second clue.

Solve each problem, then write its letter in every clue box that shows the same number.

Diagram illustrating the distribution of 128 nodes across 16 groups. The groups are arranged in two rows of eight. Each group contains four nodes. The first node in each group is highlighted in orange and labeled 'T'. The values for the nodes are:

- Row 1: [32, 75, 26], [92, 93, 76, 12], [92, 93, 41], [71, 41, 26, 12], [92, 64, 32, 75]
- Row 2: [32, 75, 26], [31, 26, 69, 32], [75, 93, 76, 12]

What number has 3 tens and 2 ones?

A diagram illustrating a transformation. On the left is a simple rectangular box. An arrow points from this box to another rectangular box on the right. Inside the second box is the capital letter 'T'.

What number has 2 tens and 6 ones?

A diagram showing a transition from an empty box to a box containing the letter E. The first box is empty, followed by a right-pointing arrow, and then a second box containing the letter 'E'.

What number has 9 tens and 2 ones?

A diagram showing a transformation. On the left is a rounded rectangle containing a question mark. An arrow points to the right, where another rounded rectangle contains the letter 'W'.

What number has 4 tens and 1 one?

What number has 7 tens and 6 ones?



A diagram showing a box with an arrow pointing to a box labeled **N**.

What number has 6 tens and 4 ones?

A diagram illustrating a transformation. On the left is a simple rectangular box. An arrow points to the right, where a more complex box is shown. This second box has a thick border and contains a vertical line in the center, resembling the letter 'I'.

What number has 1 ten and 2 ones?



What number has 7 tens and 1 one?

A diagram illustrating a transformation. On the left is a simple rectangular box. An arrow points from this box to a second box on the right. The second box is a rounded rectangle with a thick border and contains the letter 'U' in a bold, sans-serif font.

What number has 7 tens and 5 ones?

A diagram illustrating a transformation. On the left is a simple rectangular box. An arrow points from this box to another rectangular box on the right. This second box contains the letter 'H'.

What number has 9 tens and 3 ones?

A diagram illustrating a transition. On the left is a thin-bordered box. An arrow points to the right, where a thick-bordered box contains the letter 'A'.

What number has 3 tens and 1 one?

A diagram illustrating a transformation. On the left is a simple rectangular box. An arrow points from this box to another box on the right. The box on the right contains the letter 'L'.

What number has 6 tens and 9 ones?

☐ → ☒ **F**

Scratch space:

## CLUE 3

## Subtraction

Professor Flitwick had many feathers but some flew out the window. Subtract the lost feathers to get the third clue.

Solve each problem, then write its letter in every clue box that shows the same number.

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| A  |    |    |    | A  |    |    |    |    |    |    |    |    |    |    |
| 22 | 15 | 82 | 49 | 22 | 15 | 24 | 54 | 29 | 87 | 33 | 87 | 87 | 49 | 83 |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 82 | 54 | 70 | 33 | 54 | 14 | 28 | 33 | 49 | 49 | 15 | 70 | 54 | 82 | 70 |
|    |    |    |    |    |    |    |    |    |    |    |    |    |    | 13 |

$39 - 17 = \square \rightarrow \boxed{\text{A}}$

$72 - 23 = \square \rightarrow \boxed{\text{L}}$

$80 - 10 = \square \rightarrow \boxed{\text{T}}$

$71 - 38 = \square \rightarrow \boxed{\text{I}}$

$48 - 20 = \square \rightarrow \boxed{\text{W}}$

$20 - 6 = \square \rightarrow \boxed{\text{N}}$

$59 - 5 = \square \rightarrow \boxed{\text{O}}$

$109 - 22 = \square \rightarrow \boxed{\text{G}}$

$101 - 18 = \square \rightarrow \boxed{\text{E}}$

$37 - 24 = \square \rightarrow \boxed{\text{M}}$

$109 - 27 = \square \rightarrow \boxed{\text{P}}$

$46 - 31 = \square \rightarrow \boxed{\text{S}}$

$41 - 12 = \square \rightarrow \boxed{\text{F}}$

$25 - 1 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

## CLUE 4 Skip counting

The school owls are sitting on the branches in pairs. Skip count by twos to find the fourth clue.

Solve each problem, then write its letter in every clue box that shows the same number.

|    |    |    |    |     |    |    |    |    |     |    |    |    |    |    |    |
|----|----|----|----|-----|----|----|----|----|-----|----|----|----|----|----|----|
| W  |    |    |    |     |    |    |    |    |     |    |    |    |    |    |    |
| 39 | 14 | 50 | 25 | 40  | 9  | 70 | 33 | 42 | 24  | 36 | 9  | 70 | 33 | 25 | 50 |
|    |    |    |    |     |    |    |    |    |     |    |    |    |    |    |    |
| 65 | 24 | 30 | 27 | 130 | 42 | 24 | 14 | 70 | 130 | 36 | 30 | 24 |    |    |    |

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, \_\_, 42, 45  → **W**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, \_\_, 140, 150  → **H**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, \_\_, 36, 39  → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, \_\_, 16, 18  → **E**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, \_\_, 30, 33  → **G**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, \_\_, 26, 28  → **R**

Skip-count by 3s. Fill the blank: 3, 6, \_\_, 12, 15  → **N**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, \_\_, 30, 35  → **O**

Skip-count by 10s. Fill the blank: 10, 20, \_\_, 40, 50  → **I**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, \_\_, 45, 48  → **T**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, \_\_, 70, 75  → **B**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, \_\_, 75, 80  → **D**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, \_\_, 39, 42  → **A**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, \_\_, 45, 50  → **U**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, \_\_, 60, 70  → **F**

Scratch space:

**CLUE 5****Missing addends - the last clue**

We have six chocolate frogs but we need ten in total. Find the missing number of frogs to get the last clue.

First solve each problem. Then find each answer in the numbered list below and cross that sentence out. One sentence will be left - that is exactly what the villain did!

**Step 1 - solve these:**

$5 + \underline{\quad} = 14$

$7 + \underline{\quad} = 12$

$4 + \underline{\quad} = 14$

$10 + \underline{\quad} = 11$

$5 + \underline{\quad} = 16$

$8 + \underline{\quad} = 16$

$9 + \underline{\quad} = 15$

$3 + \underline{\quad} = 7$

$4 + \underline{\quad} = 6$

$9 + \underline{\quad} = 12$

$9 + \underline{\quad} = 21$

**Step 2 - cross out the sentence with each answer:**

1. The villain uses a summoning charm, then drops a shiny remembrall.
2. The villain uses a summoning charm, then checks a noisy sneakoscope.
3. The villain shoots a freezing charm, then drops a shiny remembrall.
4. The villain uses a summoning charm, then consults the marauders map.
5. The villain creates a shield charm, then hides under an invisibility cloak.
6. The villain creates a shield charm, then brews in a pocket cauldron.
7. The villain shoots a freezing charm, then consults the marauders map.
8. The villain casts a levitation charm, then drops a shiny remembrall.
9. The villain performs a tickling charm, then consults the marauders map.
10. The villain performs a tickling charm, then brews in a pocket cauldron.
11. The villain creates a shield charm, then consults the marauders map.
12. The villain uses a summoning charm, then brews in a pocket cauldron.

# Answer Key

## The Case of the Restricted Scroll

### Culprit: Draco

freezing charm · marauders map · left handed · bright red hair · giggle potion

Trail: Start 21 → Clue 1 18 → Clue 2 15 → Clue 3 9 → Clue 4 4 → Clue 5 1

### Clue 1 (Addition): "THE SNEAKY WIZARD HAS NO REMEMBRALL"

$26 + 45 = 71$  (T) ·  $40 + 17 = 57$  (R) ·  $28 + 12 = 40$  (E) ·  $56 + 28 = 84$  (Y) ·  $24 + 25 = 49$  (A) ·  $21 + 15 = 36$  (M) ·  $16 + 12 = 28$  (I) ·  $11 + 22 = 33$  (K) ·  $15 + 7 = 22$  (S) ·  $32 + 27 = 59$  (D) ·  $35 + 43 = 78$  (H) ·  $25 + 31 = 56$  (L) ·  $8 + 18 = 26$  (Z) ·  $18 + 25 = 43$  (W) ·  $35 + 48 = 83$  (B) ·  $18 + 28 = 46$  (O) ·  $30 + 23 = 53$  (N)

### Clue 2 (Place value): "THE WAND WAS USED WITH THE LEFT HAND"

What number has 3 tens and 2 ones? = 32 (T) · What number has 2 tens and 6 ones? = 26 (E) · What number has 9 tens and 2 ones? = 92 (W) · What number has 4 tens and 1 one? = 41 (S) · What number has 7 tens and 6 ones? = 76 (N) · What number has 6 tens and 4 ones? = 64 (I) · What number has 1 ten and 2 ones? = 12 (D) · What number has 7 tens and 1 one? = 71 (U) · What number has 7 tens and 5 ones? = 75 (H) · What number has 9 tens and 3 ones? = 93 (A) · What number has 3 tens and 1 one? = 31 (L) · What number has 6 tens and 9 ones? = 69 (F)

### Clue 3 (Subtraction): "A SPLASH OF GIGGLE POTION WILL STOP THEM"

$39 - 17 = 22$  (A) ·  $72 - 23 = 49$  (L) ·  $80 - 10 = 70$  (T) ·  $71 - 38 = 33$  (I) ·  $48 - 20 = 28$  (W) ·  $20 - 6 = 14$  (N) ·  $59 - 5 = 54$  (O) ·  $109 - 22 = 87$  (G) ·  $101 - 18 = 83$  (E) ·  $37 - 24 = 13$  (M) ·  $109 - 27 = 82$  (P) ·  $46 - 31 = 15$  (S) ·  $41 - 12 = 29$  (F) ·  $25 - 1 = 24$  (H)

### Clue 4 (Skip counting): "WE FOUND STRANDS OF BRIGHT RED HAIR"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, \_\_, 42, 45 = 39 (W) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, \_\_, 140, 150 = 130 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, \_\_, 36, 39 = 33 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, \_\_, 16, 18 = 14 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, \_\_, 30, 33 = 27 (G) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, \_\_, 26, 28 = 24 (R) · Skip-count by 3s. Fill the blank: 3, 6, \_\_, 12, 15 = 9 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, \_\_, 30, 35 = 25 (O) · Skip-count by 10s. Fill the blank: 10, 20, \_\_, 40, 50 = 30 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, \_\_, 45, 48 = 42 (T) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, \_\_, 70, 75 = 65 (B) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, \_\_, 75, 80 = 70 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, \_\_, 39, 42 = 36 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, \_\_, 45, 50 = 40 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, \_\_, 60, 70 = 50 (F)

### Clue 5 (Missing addends): surviving statement is box 7 → Draco

$5 + \underline{\quad} = 14 = 9$  ·  $7 + \underline{\quad} = 12 = 5$  ·  $4 + \underline{\quad} = 14 = 10$  ·  $10 + \underline{\quad} = 11 = 1$  ·  $5 + \underline{\quad} = 16 = 11$  ·  $8 + \underline{\quad} = 16 = 8$  ·  $9 + \underline{\quad} = 15 = 6$  ·  $3 + \underline{\quad} = 7 = 4$  ·  $4 + \underline{\quad} = 6 = 2$  ·  $9 + \underline{\quad} = 12 = 3$  ·  $9 + \underline{\quad} = 21 = 12$