



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							

$26 + 45 = \square \rightarrow \text{T}$	$40 + 17 = \square \rightarrow \text{R}$	$28 + 12 = \square \rightarrow \text{E}$
$56 + 28 = \square \rightarrow \text{Y}$	$24 + 25 = \square \rightarrow \text{A}$	$21 + 15 = \square \rightarrow \text{M}$
$16 + 12 = \square \rightarrow \text{I}$	$11 + 22 = \square \rightarrow \text{K}$	$15 + 7 = \square \rightarrow \text{S}$
$32 + 27 = \square \rightarrow \text{D}$	$35 + 43 = \square \rightarrow \text{H}$	$25 + 31 = \square \rightarrow \text{L}$
$8 + 18 = \square \rightarrow \text{Z}$	$18 + 25 = \square \rightarrow \text{W}$	$35 + 48 = \square \rightarrow \text{B}$
$18 + 28 = \square \rightarrow \text{O}$	$30 + 23 = \square \rightarrow \text{N}$	

Scratch space:

Place value

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 memory blocks and their values:

Row 1 (Top): 32, 75, 26, 92, 93, 76, 12, 92, 93, 41, 71, 41, 26, 12, 92, 64, 32, 75. The block containing 32 is highlighted orange and labeled 'T'.

Row 2 (Bottom): 32, 75, 26, 31, 26, 69, 32, 75, 93, 76, 12. The blocks containing 32 are highlighted orange and labeled 'T'.

What number has 3 tens and 2 ones? → **T**

What number has 2 tens and 6 ones? → **E**

What number has 9 tens and 2 ones? → **W**

What number has 4 tens and 1 one? → **S**

What number has 7 tens and 6 ones? → **N**

What number has 6 tens and 4 ones? →

1

What number has 1 ten and 2 ones? → **D**

What number has 7 tens and 1 one? → **U**

What number has 7 tens and 5 ones? → **H**

What number has 9 tens and 3 ones? → **A**

What number has 3 tens and 1 one? → **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

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