



The Secret of the Forest Camp

Grade 5 math · Fractions of a number, Order of operations, Multiplication, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

A sneaky rogue Snatcher has crossed the camp boundaries and stolen the Golden Snitch containing the Resurrection Stone! Work together to find who did it before they escape to Malfoy Manor.

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 Snatcher is _____

Possible suspects

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

NAME	SIGNATURE SPELL	SECRET RELIC	WAND HAND	TRAVEL HOOD	FEAR OF
Xenophilius Lovegood	Muffliato	Invisibility Cloak	Right Handed	Black Hood	Dementors
Bill Weasley	Muffliato	Peruvian Powder	Left Handed	Black Hood	Mandrakes
Ron Weasley	Sectumsempra	Peruvian Powder	Right Handed	Red Hood	Mandrakes
Severus Snape	Confringo	Invisibility Cloak	Left Handed	Black Hood	Mandrakes
Luna Lovegood	Confringo	Resurrection Stone	Left Handed	Grey Hood	Mandrakes
Draco Malfoy	Expulso	Deluminator	Left Handed	Grey Hood	Devil Snare
George Weasley	Confringo	Elder Wand	Right Handed	Red Hood	Mandrakes
Bellatrix Lestrange	Expulso	Elder Wand	Right Handed	Grey Hood	Mandrakes
Kingsley Shacklebolt	Protego Totalum	Invisibility Cloak	Left Handed	Black Hood	Mandrakes
Fleur Delacour	Expulso	Elder Wand	Left Handed	Grey Hood	Mandrakes
Hermione Granger	Muffliato	Resurrection Stone	Left Handed	Grey Hood	Mandrakes
Harry Potter	Protego Totalum	Resurrection Stone	Left Handed	Red Hood	Devil Snare
Ginny Weasley	Protego Totalum	Peruvian Powder	Right Handed	Red Hood	Devil Snare
Narcissa Malfoy	Sectumsempra	Peruvian Powder	Right Handed	Red Hood	Dementors
Neville Longbottom	Confringo	Peruvian Powder	Left Handed	Grey Hood	Mandrakes
Fred Weasley	Confringo	Invisibility Cloak	Right Handed	Black Hood	Devil Snare
Scabior	Muffliato	Resurrection Stone	Left Handed	Red Hood	Devil Snare
Lucius Malfoy	Muffliato	Resurrection Stone	Left Handed	Black Hood	Mandrakes
Remus Lupin	Sectumsempra	Deluminator	Left Handed	Grey Hood	Mandrakes
Gregory Goyle	Confringo	Peruvian Powder	Right Handed	Red Hood	Dementors
Nymphadora Tonks	Sectumsempra	Deluminator	Right Handed	Grey Hood	Devil Snare

CLUE 1

Fractions of a number

Harry counts the leftover healing potion bottles in the medicine box. Only a fraction of the bottles are still full, which leads us to a clue.

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

T																	T
34	11	32	10	23	19	19	15	23	31	8	12	32	26	31	12	34	
11	15	10	32	29	32	39	5	10	23	15	31	29	12	40	8	32	39

$1/3 \text{ of } 102 = \square \rightarrow \boxed{\text{T}}$

$2/4 \text{ of } 58 = \square \rightarrow \boxed{\text{P}}$

$4/10 \text{ of } 30 = \square \rightarrow \boxed{\text{O}}$

$1/2 \text{ of } 62 = \square \rightarrow \boxed{\text{N}}$

$1/3 \text{ of } 30 = \square \rightarrow \boxed{\text{V}}$

$8/10 \text{ of } 40 = \square \rightarrow \boxed{\text{E}}$

$2/10 \text{ of } 115 = \square \rightarrow \boxed{\text{I}}$

$2/3 \text{ of } 60 = \square \rightarrow \boxed{\text{W}}$

$1/5 \text{ of } 25 = \square \rightarrow \boxed{\text{U}}$

$1/10 \text{ of } 190 = \square \rightarrow \boxed{\text{L}}$

$4/8 \text{ of } 22 = \square \rightarrow \boxed{\text{H}}$

$1/4 \text{ of } 156 = \square \rightarrow \boxed{\text{R}}$

$5/10 \text{ of } 52 = \square \rightarrow \boxed{\text{S}}$

$1/3 \text{ of } 24 = \square \rightarrow \boxed{\text{D}}$

$1/3 \text{ of } 45 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 2 Order of operations

Hermione solves the magical equation locked on the Snatcher's wooden chest. Doing the steps in the right order reveals the next clue.

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

T																		
18	79	42	59	17	76	13	42	15	59	42	77	42	79	51	15			
			T															
30	42	24	18	79	51	77	22	42	22	56	51	77	22	15	43	51	17	52

$3 \times 10 - 12 = \square \rightarrow$ T	$5 \times 9 - 23 = \square \rightarrow$ D	$1 + 3 \times 4 = \square \rightarrow$ M
$13 + 8 \times 8 = \square \rightarrow$ N	$6 + 4 \times 6 = \square \rightarrow$ L	$4 + 8 \times 9 = \square \rightarrow$ I
$18 + 6 \times 4 = \square \rightarrow$ E	$7 \times 9 - 12 = \square \rightarrow$ A	$2 + 3 \times 5 = \square \rightarrow$ R
$9 + 5 \times 3 = \square \rightarrow$ F	$9 + 2 \times 3 = \square \rightarrow$ S	$9 \times 12 - 29 = \square \rightarrow$ H
$48 + 2 \times 4 = \square \rightarrow$ W	$32 + 3 \times 9 = \square \rightarrow$ C	$19 + 3 \times 8 = \square \rightarrow$ P
$7 \times 11 - 25 = \square \rightarrow$ K		

Scratch space:

CLUE 3
Multiplication facts (1-12)

Ron counts the stacks of silver Sickles stolen from the camp. He multiplies the rows to find how many coins are gone and gets a clue.

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

T																
42	99	55	5	72	90	90	144	72	66	30	90	4	6	6	55	28
55	144	80	77	64	10	80	2	144	66	28	80	144	21	55	77	

$6 \times 7 = \square \rightarrow \boxed{\text{T}}$

$4 \times 7 = \square \rightarrow \boxed{\text{D}}$

$10 \times 8 = \square \rightarrow \boxed{\text{R}}$

$9 \times 10 = \square \rightarrow \boxed{\text{L}}$

$5 \times 6 = \square \rightarrow \boxed{\text{P}}$

$3 \times 7 = \square \rightarrow \boxed{\text{K}}$

$2 \times 1 = \square \rightarrow \boxed{\text{M}}$

$12 \times 12 = \square \rightarrow \boxed{\text{A}}$

$11 \times 7 = \square \rightarrow \boxed{\text{S}}$

$9 \times 8 = \square \rightarrow \boxed{\text{I}}$

$1 \times 10 = \square \rightarrow \boxed{\text{O}}$

$8 \times 8 = \square \rightarrow \boxed{\text{F}}$

$1 \times 5 = \square \rightarrow \boxed{\text{V}}$

$9 \times 11 = \square \rightarrow \boxed{\text{H}}$

$2 \times 3 = \square \rightarrow \boxed{\text{G}}$

$11 \times 6 = \square \rightarrow \boxed{\text{N}}$

$11 \times 5 = \square \rightarrow \boxed{\text{E}}$

$1 \times 4 = \square \rightarrow \boxed{\text{U}}$

Scratch space:

CLUE 4 Rounding

The magical sneakoscope spins and flashes rapidly. Its spinning speed rounds to the nearest ten, giving us a clear clue about the thief.

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

T					T											T		
2300	230	3000	70	300	2300	200	3000	900	900	900	290	70	290	2000	430	900	2300	90
										T							T	
20	130	3000	90	230	4300	4300	2000	130	3000	2300	130	3000	290	2300				

Round 2,253 to the nearest hundred → **T**

Round 430 to the nearest ten → **U**

Round 4,259 to the nearest hundred → **O**

Round 67 to the nearest ten → **W**

Round 277 to the nearest hundred → **I**

Round 292 to the nearest ten → **A**

Round 232 to the nearest ten → **H**

Round 3,191 to the nearest thousand → **E**

Round 176 to the nearest hundred → **N**

Round 2,335 to the nearest thousand → **D**

Round 129 to the nearest ten → **R**

Round 902 to the nearest hundred → **S**

Round 86 to the nearest ten → **Y**

Round 21 to the nearest ten → **G**

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

We must divide the remaining dragon liver treats equally among the guard owls. The share each owl gets points to the final 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:

$2 \div 2 = \boxed{}$

$12 \div 1 = \boxed{}$

$16 \div 8 = \boxed{}$

$21 \div 7 = \boxed{}$

$30 \div 5 = \boxed{}$

$132 \div 12 = \boxed{}$

$35 \div 5 = \boxed{}$

$50 \div 5 = \boxed{}$

$24 \div 6 = \boxed{}$

$8 \div 1 = \boxed{}$

$63 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain whispers mufliato, then turns a resurrection stone.
2. The villain casts confringo at the tent, then turns a resurrection stone.
3. The villain whispers mufliato, then points the elder wand.
4. The villain whispers mufliato, then throws peruvian powder.
5. The villain slashes with sectumsempra, then clicks a dark deluminator.
6. The villain casts confringo at the tent, then throws peruvian powder.
7. The villain whispers mufliato, then clicks a dark deluminator.
8. The villain sets up protego totalum, then throws peruvian powder.
9. The villain slashes with sectumsempra, then points the elder wand.
10. The villain casts confringo at the tent, then points the elder wand.
11. The villain sets up protego totalum, then slips under an invisibility cloak.
12. The villain fires an expulso blast, then points the elder wand.

Answer Key

The Secret of the Forest Camp

Culprit: Remus Lupin

Sectumsempra · Deluminator · Left Handed · Grey Hood · Mandrakes

Trail: Start 21 → Clue 1 15 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT HAVE PERUVIAN POWDER"

$\frac{1}{3}$ of 102 = 34 (T) · $\frac{2}{4}$ of 58 = 29 (P) · $\frac{4}{10}$ of 30 = 12 (O) · $\frac{1}{2}$ of 62 = 31 (N) · $\frac{1}{3}$ of 30 = 10 (V) · $\frac{8}{10}$ of 40 = 32 (E) · $\frac{2}{10}$ of 115 = 23 (I) · $\frac{2}{3}$ of 60 = 40 (W) · $\frac{1}{5}$ of 25 = 5 (U) · $\frac{1}{10}$ of 190 = 19 (L) · $\frac{4}{8}$ of 22 = 11 (H) · $\frac{1}{4}$ of 156 = 39 (R) · $\frac{5}{10}$ of 52 = 26 (S) · $\frac{1}{3}$ of 24 = 8 (D) · $\frac{1}{3}$ of 45 = 15 (A)

Clue 2 (Order of operations): "THE CRIME SCENE HAS LEFT HANDED WAND SPARK"

$3 \times 10 - 12 = 18$ (T) · $5 \times 9 - 23 = 22$ (D) · $1 + 3 \times 4 = 13$ (M) · $13 + 8 \times 8 = 77$ (N) · $6 + 4 \times 6 = 30$ (L) · $4 + 8 \times 9 = 76$ (I) · $18 + 6 \times 4 = 42$ (E) · $7 \times 9 - 12 = 51$ (A) · $2 + 3 \times 5 = 17$ (R) · $9 + 5 \times 3 = 24$ (F) · $9 + 2 \times 3 = 15$ (S) · $9 \times 12 - 29 = 79$ (H) · $48 + 2 \times 4 = 56$ (W) · $32 + 3 \times 9 = 59$ (C) · $19 + 3 \times 8 = 43$ (P) · $7 \times 11 - 25 = 52$ (K)

Clue 3 (Multiplication facts (1-12)): "THE VILLAIN PLUGGED EARS FOR MANDRAKES"

$6 \times 7 = 42$ (T) · $4 \times 7 = 28$ (D) · $10 \times 8 = 80$ (R) · $9 \times 10 = 90$ (L) · $5 \times 6 = 30$ (P) · $3 \times 7 = 21$ (K) · $2 \times 1 = 2$ (M) · $12 \times 12 = 144$ (A) · $11 \times 7 = 77$ (S) · $9 \times 8 = 72$ (I) · $1 \times 10 = 10$ (O) · $8 \times 8 = 64$ (F) · $1 \times 5 = 5$ (V) · $9 \times 11 = 99$ (H) · $2 \times 3 = 6$ (G) · $11 \times 6 = 66$ (N) · $11 \times 5 = 55$ (E) · $1 \times 4 = 4$ (U)

Clue 4 (Rounding): "THE WITNESS SAW A DUSTY GREY HOOD RETREAT"

Round 2,253 to the nearest hundred = 2300 (T) · Round 430 to the nearest ten = 430 (U) · Round 4,259 to the nearest hundred = 4300 (O) · Round 67 to the nearest ten = 70 (W) · Round 277 to the nearest hundred = 300 (I) · Round 292 to the nearest ten = 290 (A) · Round 232 to the nearest ten = 230 (H) · Round 3,191 to the nearest thousand = 3000 (E) · Round 176 to the nearest hundred = 200 (N) · Round 2,335 to the nearest thousand = 2000 (D) · Round 129 to the nearest ten = 130 (R) · Round 902 to the nearest hundred = 900 (S) · Round 86 to the nearest ten = 90 (Y) · Round 21 to the nearest ten = 20 (G)

Clue 5 (Division facts (1-12)): surviving statement is box 5 → Remus Lupin

$2 \div 2 = 1$ · $12 \div 1 = 12$ · $16 \div 8 = 2$ · $21 \div 7 = 3$ · $30 \div 5 = 6$ · $132 \div 12 = 11$ · $35 \div 5 = 7$ · $50 \div 5 = 10$ · $24 \div 6 = 4$ · $8 \div 1 = 8$ · $63 \div 7 = 9$