



The Spy Academy Caper

Grade 2 math · Multiplication, Place value, Addition, Subtraction, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

Someone has swiped the golden decoder ring from the Spy Academy vault! The Headmaster needs our cadet team to follow the clues and unmask the Rogue Cadet.

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 Cadet is _____

Possible suspects

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

NAME	PRIMARY GADGET	BACKUP TOOL	SIGNATURE MOVE	HAIR COLOR	ACADEMY FEAR
Agent Jax	laser watch	mini camera	writes right handed	neon blue	fear of lasers
Agent Mason	sonic whistle	disguise kit	writes left handed	spy black	fear of water
Agent Ella	grappling hook	night goggles	writes right handed	spy black	fear of water
Agent Sophia	laser watch	decoder pen	writes right handed	neon blue	fear of lasers
Agent Chloe	grappling hook	mini camera	writes left handed	neon blue	fear of lasers
Agent Grace	rocket boots	disguise kit	writes left handed	spy black	fear of heights
Agent Jack	spy drone	mini camera	writes left handed	bright orange	fear of lasers
Agent Eli	rocket boots	decoder pen	writes left handed	bright orange	fear of heights
Agent Owen	grappling hook	mini camera	writes right handed	neon blue	fear of lasers
Agent Maya	sonic whistle	disguise kit	writes right handed	bright orange	fear of heights
Agent Max	spy drone	mini camera	writes left handed	bright orange	fear of water
Agent Sam	laser watch	night goggles	writes right handed	bright orange	fear of heights
Agent Finn	laser watch	night goggles	writes right handed	neon blue	fear of heights
Agent Leo	laser watch	smoke bomb	writes right handed	neon blue	fear of heights
Agent Luke	laser watch	night goggles	writes right handed	spy black	fear of lasers
Agent Ava	sonic whistle	night goggles	writes left handed	spy black	fear of heights
Agent Noah	sonic whistle	smoke bomb	writes right handed	neon blue	fear of lasers
Agent Mia	spy drone	disguise kit	writes right handed	bright orange	fear of lasers
Agent Lily	spy drone	decoder pen	writes right handed	spy black	fear of water
Agent Toby	laser watch	decoder pen	writes left handed	spy black	fear of water
Agent Ben	spy drone	night goggles	writes right handed	neon blue	fear of lasers

CLUE 1

Multiplication facts (1-12)

We found the villain's supply chest! It has rows of agent gear. Let us count the total gear in these equal rows to unlock the chest.

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

T								T											
22	18	55	66	84	63	55	22	63	35	55	36	54	35	22	18	84	110	55	
84	63	55	66	35	63	55	12	6	55	54									

$2 \times 11 = \square \rightarrow \boxed{\text{T}}$

$9 \times 6 = \square \rightarrow \boxed{\text{N}}$

$7 \times 12 = \square \rightarrow \boxed{\text{A}}$

$7 \times 9 = \square \rightarrow \boxed{\text{D}}$

$1 \times 12 = \square \rightarrow \boxed{\text{R}}$

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

$4 \times 9 = \square \rightarrow \boxed{\text{S}}$

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

$9 \times 2 = \square \rightarrow \boxed{\text{H}}$

$11 \times 10 = \square \rightarrow \boxed{\text{V}}$

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

$7 \times 5 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 2 Place value

A locked computer holds the next clue. We need to enter the code by finding the tens and ones on the digital screen.

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

T								T				T						T	
31	47	72	81	93	83	72	31	20	15	43	31	72	57	20	43	31	47		
T										T									
31	47	72	43	15	15	43	44	47	31	47	93	21	83						

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

What number has 8 tens and 1 one? → **C**

What number has 4 tens and 4 ones? → **G**

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

What number has 2 tens and 1 one? → **N**

What number has 4 tens and 3 ones? → **I**

What number has 4 tens and 7 ones? → **H**

What number has 7 tens and 2 ones? → **E**

What number has 8 tens and 3 ones? → **D**

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

What number has 2 tens and 0 ones? → **W**

What number has 1 ten and 5 ones? → **R**

Scratch space:

CLUE 3 **Addition**

The ground is covered in boot prints. We must add the prints from the muddy path to the prints on the grass to map the escape route.

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

T 91 98 55	21 61 88 52 55	21 52 81 38	97 76 97 23
42 21 61 83	21 55 22	49 97 38 55 21 38	

$54 + 37 = \square \rightarrow \boxed{\text{T}}$	$52 + 24 = \square \rightarrow \boxed{\text{W}}$	$17 + 6 = \square \rightarrow \boxed{\text{Y}}$
$25 + 24 = \square \rightarrow \boxed{\text{L}}$	$17 + 35 = \square \rightarrow \boxed{\text{U}}$	$61 + 36 = \square \rightarrow \boxed{\text{A}}$
$12 + 10 = \square \rightarrow \boxed{\text{D}}$	$38 + 60 = \square \rightarrow \boxed{\text{H}}$	$24 + 31 = \square \rightarrow \boxed{\text{E}}$
$44 + 37 = \square \rightarrow \boxed{\text{N}}$	$41 + 42 = \square \rightarrow \boxed{\text{M}}$	$26 + 12 = \square \rightarrow \boxed{\text{S}}$
$14 + 28 = \square \rightarrow \boxed{\text{F}}$	$36 + 25 = \square \rightarrow \boxed{\text{O}}$	$60 + 28 = \square \rightarrow \boxed{\text{G}}$
$10 + 11 = \square \rightarrow \boxed{\text{R}}$		

Scratch space:

CLUE 4

Subtraction

The runner dropped some gadget parts while escaping! Let us subtract the dropped parts from their starting pack to see what is missing.

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

B																			
50	80	31	34	17	82	71	30	60	73	30	82	51	68	60	62	34	30	34	
				B															
80	34	36	73	50	34	17	71	51	68										

$78 - 28 = \square \rightarrow \boxed{\mathbf{B}}$

$77 - 17 = \square \rightarrow \boxed{\mathbf{S}}$

$25 - 8 = \square \rightarrow \boxed{\mathbf{H}}$

$50 - 19 = \square \rightarrow \boxed{\mathbf{U}}$

$40 - 6 = \square \rightarrow \boxed{\mathbf{E}}$

$98 - 18 = \square \rightarrow \boxed{\mathbf{L}}$

$71 - 9 = \square \rightarrow \boxed{\mathbf{W}}$

$91 - 20 = \square \rightarrow \boxed{\mathbf{I}}$

$65 - 29 = \square \rightarrow \boxed{\mathbf{F}}$

$74 - 6 = \square \rightarrow \boxed{\mathbf{D}}$

$110 - 28 = \square \rightarrow \boxed{\mathbf{A}}$

$80 - 7 = \square \rightarrow \boxed{\mathbf{T}}$

$55 - 25 = \square \rightarrow \boxed{\mathbf{R}}$

$83 - 32 = \square \rightarrow \boxed{\mathbf{N}}$

Scratch space:

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

To open the final gear locker, the weight scales must match. Find the missing weight to balance the secret locker door.

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:

$5 + \underline{\quad} = 17$

$5 + \underline{\quad} = 15$

$1 + \underline{\quad} = 2$

$1 + \underline{\quad} = 6$

$3 + \underline{\quad} = 12$

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

$2 + \underline{\quad} = 10$

$1 + \underline{\quad} = 7$

$3 + \underline{\quad} = 10$

$2 + \underline{\quad} = 13$

$9 + \underline{\quad} = 11$

Step 2 - cross out the sentence with each answer:

1. The villain flies over the security gate, then hides in the shadows.
2. The villain cracks the vault lock, then leaves a fake footprint.
3. The villain flies over the security gate, then escapes down the zipline.
4. The villain climbs the training wall, then leaves a fake footprint.
5. The villain distracts the guard dogs, then disappears in a flash.
6. The villain flies over the security gate, then leaves a fake footprint.
7. The villain cracks the vault lock, then sprints to the getaway kart.
8. The villain distracts the guard dogs, then hides in the shadows.
9. The villain cracks the vault lock, then hides in the shadows.
10. The villain sneaks through the laser grid, then leaves a fake footprint.
11. The villain distracts the guard dogs, then leaves a fake footprint.
12. The villain distracts the guard dogs, then escapes down the zipline.

Answer Key

The Spy Academy Caper

Culprit: Agent Owen

grappling hook · mini camera · writes right handed · neon blue · fear of lasers

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE CADET DOES NOT HAVE A DECODER PEN"

$2 \times 11 = 22$ (T) · $9 \times 6 = 54$ (N) · $7 \times 12 = 84$ (A) · $7 \times 9 = 63$ (D) · $1 \times 12 = 12$ (R) · $2 \times 3 = 6$ (P) · $4 \times 9 = 36$ (S) · $11 \times 5 = 55$ (E) · $9 \times 2 = 18$ (H) · $11 \times 10 = 110$ (V) · $6 \times 11 = 66$ (C) · $7 \times 5 = 35$ (O)

Clue 2 (Place value): "THE CADET WRITES WITH THEIR RIGHT HAND"

What number has 3 tens and 1 one? = 31 (T) · What number has 8 tens and 1 one? = 81 (C) · What number has 4 tens and 4 ones? = 44 (G) · What number has 9 tens and 3 ones? = 93 (A) · What number has 2 tens and 1 one? = 21 (N) · What number has 4 tens and 3 ones? = 43 (I) · What number has 4 tens and 7 ones? = 47 (H) · What number has 7 tens and 2 ones? = 72 (E) · What number has 8 tens and 3 ones? = 83 (D) · What number has 5 tens and 7 ones? = 57 (S) · What number has 2 tens and 0 ones? = 20 (W) · What number has 1 ten and 5 ones? = 15 (R)

Clue 3 (Addition): "THE ROGUE RUNS AWAY FROM RED LASERS"

$54 + 37 = 91$ (T) · $52 + 24 = 76$ (W) · $17 + 6 = 23$ (Y) · $25 + 24 = 49$ (L) · $17 + 35 = 52$ (U) · $61 + 36 = 97$ (A) · $12 + 10 = 22$ (D) · $38 + 60 = 98$ (H) · $24 + 31 = 55$ (E) · $44 + 37 = 81$ (N) · $41 + 42 = 83$ (M) · $26 + 12 = 38$ (S) · $14 + 28 = 42$ (F) · $36 + 25 = 61$ (O) · $60 + 28 = 88$ (G) · $10 + 11 = 21$ (R)

Clue 4 (Subtraction): "BLUE HAIR STRANDS WERE LEFT BEHIND"

$78 - 28 = 50$ (B) · $77 - 17 = 60$ (S) · $25 - 8 = 17$ (H) · $50 - 19 = 31$ (U) · $40 - 6 = 34$ (E) · $98 - 18 = 80$ (L) · $71 - 9 = 62$ (W) · $91 - 20 = 71$ (I) · $65 - 29 = 36$ (F) · $74 - 6 = 68$ (D) · $110 - 28 = 82$ (A) · $80 - 7 = 73$ (T) · $55 - 25 = 30$ (R) · $83 - 32 = 51$ (N)

Clue 5 (Missing addends): surviving statement is box 4 → Agent Owen

$5 + \underline{\quad} = 17 = 12$ · $5 + \underline{\quad} = 15 = 10$ · $1 + \underline{\quad} = 2 = 1$ · $1 + \underline{\quad} = 6 = 5$ · $3 + \underline{\quad} = 12 = 9$ · $9 + \underline{\quad} = 12 = 3$ · $2 + \underline{\quad} = 10 = 8$ · $1 + \underline{\quad} = 7 = 6$ · $3 + \underline{\quad} = 10 = 7$ · $2 + \underline{\quad} = 13 = 11$ · $9 + \underline{\quad} = 11 = 2$