



The Secret Agent Gadget Heist

Grade 7 math · Fractions of a number, Multiplication, Rounding, Integers · Reading level grades 5-6

Detective: _____ Date: _____

Someone has broken into the Academy vaults and swiped the prototype Shrink-Ray! The Head Gadgeteer needs your help to scan the training gym logs and unmask the rogue agent before they escape the island.

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 Agent is _____

Possible suspects

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

NAME	SPY GEAR	HACKING TOOL	GRIP STYLE	DISGUISE HAIR	TECH GLITCH
Agent Jade	Smoke Bomb	Memory Eraser	Right-handed grip	Neon blue wig	Magnet allergy
Agent Maya	Laser Pointer	Decoy Drone	Left-handed grip	Spiky silver hair	Static shock
Agent Kira	Smoke Bomb	Code Breaker	Right-handed grip	Spiky silver hair	Loud noises
Agent Zoe	Smoke Bomb	Decoy Drone	Left-handed grip	Sleek black hair	Magnet allergy
Agent Ruby	Smoke Bomb	Logic Bypass	Right-handed grip	Neon blue wig	Static shock
Agent Knox	Laser Pointer	Memory Eraser	Right-handed grip	Spiky silver hair	Magnet allergy
Agent Paige	Smoke Bomb	Signal Jammer	Right-handed grip	Neon blue wig	Loud noises
Agent Nova	Jet Shoes	Signal Jammer	Left-handed grip	Neon blue wig	Loud noises
Agent Iris	Night Visor	Logic Bypass	Right-handed grip	Spiky silver hair	Magnet allergy
Agent Chase	Night Visor	Code Breaker	Right-handed grip	Spiky silver hair	Magnet allergy
Agent Cole	Jet Shoes	Code Breaker	Right-handed grip	Sleek black hair	Static shock
Agent Jax	Jet Shoes	Code Breaker	Right-handed grip	Spiky silver hair	Magnet allergy
Agent Cody	Jet Shoes	Signal Jammer	Right-handed grip	Neon blue wig	Static shock
Agent Finn	Night Visor	Code Breaker	Right-handed grip	Spiky silver hair	Loud noises
Agent Piper	Smoke Bomb	Code Breaker	Right-handed grip	Sleek black hair	Magnet allergy
Agent Max	Night Visor	Signal Jammer	Right-handed grip	Sleek black hair	Magnet allergy
Agent Rex	Night Visor	Decoy Drone	Right-handed grip	Spiky silver hair	Magnet allergy
Agent Zack	Grappling Hook	Logic Bypass	Left-handed grip	Sleek black hair	Static shock
Agent Alex	Night Visor	Decoy Drone	Left-handed grip	Sleek black hair	Loud noises
Agent Skye	Jet Shoes	Signal Jammer	Right-handed grip	Sleek black hair	Magnet allergy
Agent Jett	Night Visor	Memory Eraser	Left-handed grip	Spiky silver hair	Magnet allergy

CLUE 1
Fractions of a number

The academy computers hold a master list of spy recruits. We only need to check a specific fraction of these files to find our first big lead.

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

T																T
37	54	18	38	56	5	5	57	56	13	31	23	18	19	13	23	37
			T													
10	19	18	37	54	18	5	23	2	56	49	43	12	16	57	19	19

$2/10 \text{ of } 185 = \square \rightarrow \boxed{\text{T}}$

$1/4 \text{ of } 196 = \square \rightarrow \boxed{\text{C}}$

$4/6 \text{ of } 3 = \square \rightarrow \boxed{\text{G}}$

$1/5 \text{ of } 95 = \square \rightarrow \boxed{\text{S}}$

$4/6 \text{ of } 81 = \square \rightarrow \boxed{\text{H}}$

$2/4 \text{ of } 46 = \square \rightarrow \boxed{\text{O}}$

$1/2 \text{ of } 76 = \square \rightarrow \boxed{\text{V}}$

$3/10 \text{ of } 190 = \square \rightarrow \boxed{\text{A}}$

$2/3 \text{ of } 15 = \square \rightarrow \boxed{\text{U}}$

$2/10 \text{ of } 65 = \square \rightarrow \boxed{\text{N}}$

$2/5 \text{ of } 30 = \square \rightarrow \boxed{\text{Y}}$

$3/8 \text{ of } 48 = \square \rightarrow \boxed{\text{E}}$

$1/3 \text{ of } 129 = \square \rightarrow \boxed{\text{B}}$

$2/4 \text{ of } 10 = \square \rightarrow \boxed{\text{L}}$

$2/6 \text{ of } 93 = \square \rightarrow \boxed{\text{D}}$

$1/2 \text{ of } 32 = \square \rightarrow \boxed{\text{P}}$

$1/2 \text{ of } 112 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

CLUE 2
Multiplication facts (1-12)

The rogue agent fled through a grid of training rooms. By multiplying the rows of security sensors, we can pinpoint where they disabled the alarm.

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

W																	
50	99	16	35	40	80	21	2	18	14	144	55	144	15	80	21	99	21

										W				
11	2	18	80	55	20	35	80	55	144	99	50	15	70	70

$5 \times 10 = \square \rightarrow$ W	$10 \times 7 = \square \rightarrow$ L	$10 \times 8 = \square \rightarrow$ N	
$11 \times 1 = \square \rightarrow$ P	$4 \times 4 = \square \rightarrow$ F	$7 \times 5 = \square \rightarrow$ O	$5 \times 8 = \square \rightarrow$ U
$3 \times 5 = \square \rightarrow$ A	$1 \times 2 = \square \rightarrow$ R	$12 \times 12 = \square \rightarrow$ H	
$5 \times 4 = \square \rightarrow$ S	$6 \times 3 = \square \rightarrow$ I	$7 \times 2 = \square \rightarrow$ G	$5 \times 11 = \square \rightarrow$ T
$3 \times 7 = \square \rightarrow$ D	$11 \times 9 = \square \rightarrow$ E		

Scratch space:

CLUE 3 Rounding

A motion detector picked up a faint signal, but the screen only shows rounded numbers. Rounding the reading helps us track their exact path.

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

T								T								
230	430	370	2000	30	700	30	230	900	2900	430	1300	3700	1300			

					T											
7000	1300	1700	3000	370	230	1300	110	110	370	2900	1700	290				

Round 228 to the nearest ten → **T**

Round 945 to the nearest hundred → **O**

Round 7,156 to the nearest thousand → **M**

Round 3,192 to the nearest thousand → **N**

Round 1,278 to the nearest hundred → **A**

Round 29 to the nearest ten → **I**

Round 110 to the nearest ten → **L**

Round 433 to the nearest ten → **H**

Round 368 to the nearest ten → **E**

Round 286 to the nearest ten → **Y**

Round 731 to the nearest hundred → **S**

Round 2,920 to the nearest hundred → **R**

Round 2,468 to the nearest thousand → **V**

Round 3,712 to the nearest hundred → **D**

Round 1,686 to the nearest hundred → **G**

Scratch space:

CLUE 4 Integers

The intruder took an elevator deep into the underground vaults, going up and down several floors. Calculating these positive and negative levels reveals where they hid.

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

S					S												S
18	14	17	23	24	18	17	13	27	8	1	19	4	17	1	21	4	18
12	6	15	28	5	6	28	16	19	8	27	8	28	16				

$4 - (-14) = \square \rightarrow \text{S}$	$(-14) + 20 = \square \rightarrow \text{O}$	$2 - (-15) = \square \rightarrow \text{I}$
$(-8) + 24 = \square \rightarrow \text{T}$	$(-12) + 16 = \square \rightarrow \text{A}$	$(-11) + 25 = \square \rightarrow \text{P}$
$(-15) + 30 = \square \rightarrow \text{U}$	$4 - (-8) = \square \rightarrow \text{F}$	$19 - (-8) = \square \rightarrow \text{V}$
$(-13) + 18 = \square \rightarrow \text{D}$	$12 - (-1) = \square \rightarrow \text{L}$	$(-14) + 33 = \square \rightarrow \text{H}$
$(-3) + 4 = \square \rightarrow \text{R}$	$(-10) + 34 = \square \rightarrow \text{Y}$	$19 - (-2) = \square \rightarrow \text{W}$
$(-6) + 14 = \square \rightarrow \text{E}$	$(-12) + 35 = \square \rightarrow \text{K}$	$(-3) + 31 = \square \rightarrow \text{N}$

Scratch space:

CLUE 5**Fractions of a number - the last clue**

A torn piece of paper contains part of an encrypted security code. We must calculate a fraction of the total digits to unlock the remaining 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:

$3/4 \text{ of } 12 = \boxed{}$

$4/5 \text{ of } 5 = \boxed{}$

$2/6 \text{ of } 33 = \boxed{}$

$4/10 \text{ of } 20 = \boxed{}$

$1/2 \text{ of } 24 = \boxed{}$

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

$1/4 \text{ of } 28 = \boxed{}$

$2/6 \text{ of } 3 = \boxed{}$

$1/4 \text{ of } 8 = \boxed{}$

$5/8 \text{ of } 16 = \boxed{}$

$3/10 \text{ of } 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain shined a laser pointer to blind the camera, then sent out a decoy drone to distract the dogs.
2. The villain dropped a smoke bomb to confuse the guards, then cracked the mainframe with a code breaker.
3. The villain activated jet shoes to zoom over the floor, then wiped the security logs with a memory eraser.
4. The villain shined a laser pointer to blind the camera, then wiped the security logs with a memory eraser.
5. The villain flipped on a night visor to see in the dark, then blocked communications using a signal jammer.
6. The villain activated jet shoes to zoom over the floor, then cracked the mainframe with a code breaker.
7. The villain activated jet shoes to zoom over the floor, then sent out a decoy drone to distract the dogs.
8. The villain fired a grappling hook to scale the balcony, then sent out a decoy drone to distract the dogs.
9. The villain flipped on a night visor to see in the dark, then cracked the mainframe with a code breaker.
10. The villain dropped a smoke bomb to confuse the guards, then sneaked past security with a logic bypass.
11. The villain flipped on a night visor to see in the dark, then sent out a decoy drone to distract the dogs.
12. The villain fired a grappling hook to scale the balcony, then blocked communications using a signal jammer.

Answer Key

The Secret Agent Gadget Heist

Culprit: Agent Jax

Jet Shoes · Code Breaker · Right-handed grip · Spiky silver hair · Magnet allergy

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Fractions of a number): "THE VILLAIN DOES NOT USE THE LOGIC BYPASS"

$2/10$ of 185 = 37 (T) · $1/4$ of 196 = 49 (C) · $4/6$ of 3 = 2 (G) · $1/5$ of 95 = 19 (S) · $4/6$ of 81 = 54 (H) · $2/4$ of 46 = 23 (O) · $1/2$ of 76 = 38 (V) · $3/10$ of 190 = 57 (A) · $2/3$ of 15 = 10 (U) · $2/10$ of 65 = 13 (N) · $2/5$ of 30 = 12 (Y) · $3/8$ of 48 = 18 (E) · $1/3$ of 129 = 43 (B) · $2/4$ of 10 = 5 (L) · $2/6$ of 93 = 31 (D) · $1/2$ of 32 = 16 (P) · $1/2$ of 112 = 56 (I)

Clue 2 (Multiplication facts (1-12)): "WE FOUND RIGHT HANDED PRINTS ON THE WALL"

$5 \times 10 = 50$ (W) · $10 \times 7 = 70$ (L) · $10 \times 8 = 80$ (N) · $11 \times 1 = 11$ (P) · $4 \times 4 = 16$ (F) · $7 \times 5 = 35$ (O) · $5 \times 8 = 40$ (U) · $3 \times 5 = 15$ (A) · $1 \times 2 = 2$ (R) · $12 \times 12 = 144$ (H) · $5 \times 4 = 20$ (S) · $6 \times 3 = 18$ (I) · $7 \times 2 = 14$ (G) · $5 \times 11 = 55$ (T) · $3 \times 7 = 21$ (D) · $11 \times 9 = 99$ (E)

Clue 3 (Rounding): "THE VISITOR HAD A MAGNET ALLERGY"

Round 228 to the nearest ten = 230 (T) · Round 945 to the nearest hundred = 900 (O) · Round 7,156 to the nearest thousand = 7000 (M) · Round 3,192 to the nearest thousand = 3000 (N) · Round 1,278 to the nearest hundred = 1300 (A) · Round 29 to the nearest ten = 30 (I) · Round 110 to the nearest ten = 110 (L) · Round 433 to the nearest ten = 430 (H) · Round 368 to the nearest ten = 370 (E) · Round 286 to the nearest ten = 290 (Y) · Round 731 to the nearest hundred = 700 (S) · Round 2,920 to the nearest hundred = 2900 (R) · Round 2,468 to the nearest thousand = 2000 (V) · Round 3,712 to the nearest hundred = 3700 (D) · Round 1,686 to the nearest hundred = 1700 (G)

Clue 4 (Integers): "SPIKY SILVER HAIR WAS FOUND ON THE VENT"

$4 - (-14) = 18$ (S) · $(-14) + 20 = 6$ (O) · $2 - (-15) = 17$ (I) · $(-8) + 24 = 16$ (T) · $(-12) + 16 = 4$ (A) · $(-11) + 25 = 14$ (P) · $(-15) + 30 = 15$ (U) · $4 - (-8) = 12$ (F) · $19 - (-8) = 27$ (V) · $(-13) + 18 = 5$ (D) · $12 - (-1) = 13$ (L) · $(-14) + 33 = 19$ (H) · $(-3) + 4 = 1$ (R) · $(-10) + 34 = 24$ (Y) · $19 - (-2) = 21$ (W) · $(-6) + 14 = 8$ (E) · $(-12) + 35 = 23$ (K) · $(-3) + 31 = 28$ (N)

Clue 5 (Fractions of a number): surviving statement is box 6 → Agent Jax

$3/4$ of 12 = 9 · $4/5$ of 5 = 4 · $2/6$ of 33 = 11 · $4/10$ of 20 = 8 · $1/2$ of 24 = 12 · $1/5$ of 25 = 5 · $1/4$ of 28 = 7 · $2/6$ of 3 = 1 · $1/4$ of 8 = 2 · $5/8$ of 16 = 10 · $3/10$ of 10 = 3