# The Spy Academy Codebreakers

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 5-6

**Detective:** _____ **Date:** _____

A Rogue Agent has infiltrated the Spy Academy and stolen the Master Decryption Key! The Chief Tech Director was locked inside the laser vault. We must analyze the evidence left behind to deduce which Academy member turned rogue before they escape on the stealth jet.

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

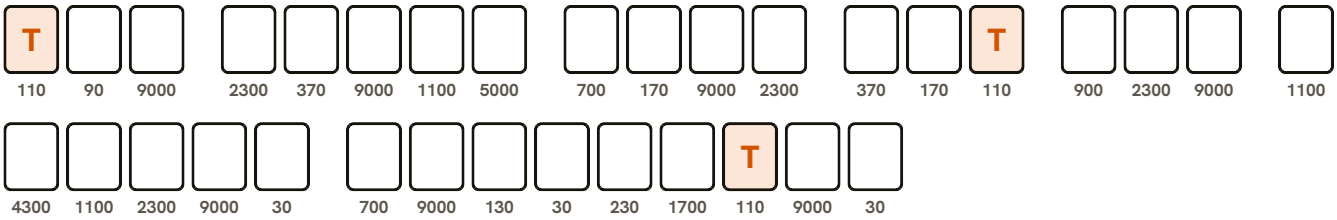
Cross off a row as each clue rules it out. The one left at the end is the culprit.

| NAME | SIGNATURE GADGET | HACKING TOOL | WATCH WRIST | DISGUISE WIG | SNACK DISTRACTION |
|---|---|---|---|---|---|
| **Tony Stark** | Grappling Hook Belt | Keycard cloner | Left wrist watch | Toxic green wig | Spicy pepper |
| **Inspector Gadget** | Sonic Screwdriver | Laser decrypter | Left wrist watch | Sunset orange wig | Sour lemon |
| **Selina Kyle** | Smoke Bomb Pen | Data bypasser | Right wrist watch | Neon blue wig | Sticky honey |
| **Perry Platypus** | Grappling Hook Belt | Mainframe override | Right wrist watch | Sunset orange wig | Sour lemon |
| **Indiana Jones** | Laser Ring | Mainframe override | Right wrist watch | Neon blue wig | Sour lemon |
| **Spy Kid Juni** | Sonic Screwdriver | Keycard cloner | Left wrist watch | Neon blue wig | Sour lemon |
| **Harriet Spy** | Hover Boots | Data bypasser | Right wrist watch | Toxic green wig | Sour lemon |
| **Frank Hardy** | Grappling Hook Belt | Mainframe override | Right wrist watch | Sunset orange wig | Sticky honey |
| **James Bond** | Laser Ring | Mainframe override | Left wrist watch | Sunset orange wig | Sour lemon |
| **Carmen Sandiego** | Grappling Hook Belt | Laser decrypter | Right wrist watch | Neon blue wig | Sour lemon |
| **Austin Powers** | Grappling Hook Belt | Laser decrypter | Right wrist watch | Sunset orange wig | Sticky honey |
| **Natasha Romanoff** | Sonic Screwdriver | Laser decrypter | Right wrist watch | Neon blue wig | Sticky honey |
| **Bruce Wayne** | Sonic Screwdriver | Signal jammer | Right wrist watch | Neon blue wig | Sour lemon |
| **Lara Croft** | Sonic Screwdriver | Keycard cloner | Right wrist watch | Neon blue wig | Sour lemon |
| **Cody Banks** | Smoke Bomb Pen | Signal jammer | Right wrist watch | Neon blue wig | Sour lemon |
| **Joe Hardy** | Laser Ring | Signal jammer | Right wrist watch | Sunset orange wig | Spicy pepper |
| **Spy Kid Carmen** | Hover Boots | Signal jammer | Right wrist watch | Toxic green wig | Sour lemon |
| **Kim Possible** | Sonic Screwdriver | Mainframe override | Left wrist watch | Neon blue wig | Sticky honey |
| **Nancy Drew** | Laser Ring | Signal jammer | Left wrist watch | Sunset orange wig | Sticky honey |
| **Sherlock Holmes** | Hover Boots | Laser decrypter | Right wrist watch | Toxic green wig | Spicy pepper |
| **John Watson** | Laser Ring | Laser decrypter | Right wrist watch | Sunset orange wig | Sour lemon |

## CLUE 1 Rounding

A motion radar picked up the fleeing suspect. The radar screen only displays numbers rounded to the nearest ten, so we have to estimate the target's distance to narrow down the sector.

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




Round 109 to the nearest ten ☐ → T

Round 934 to the nearest hundred ☐ → U

Round 4,259 to the nearest hundred ☐ → L

Round 5,093 to the nearest thousand ☐ → K

Round 8,682 to the nearest thousand ☐ → E

Round 87 to the nearest ten ☐ → H

Round 26 to the nearest ten ☐ → R

Round 1,677 to the nearest hundred ☐ → P

Round 171 to the nearest ten ☐ → O

Round 373 to the nearest ten ☐ → N

Round 2,287 to the nearest hundred ☐ → S

Round 1,057 to the nearest hundred ☐ → A

Round 132 to the nearest ten ☐ → C

Round 684 to the nearest hundred ☐ → D

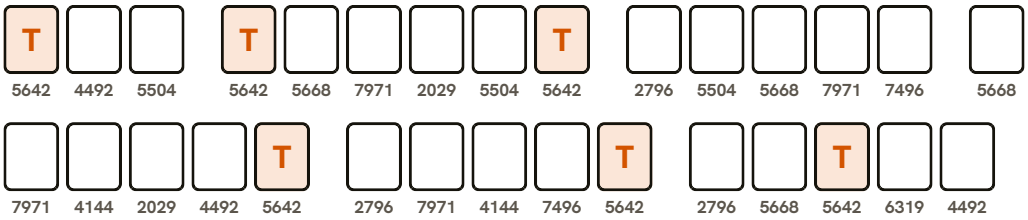
Round 227 to the nearest ten ☐ → Y

Scratch space:

## CLUE 2 Addition

> We searched the supply lockers and counted all the remaining spy gear. Adding these extra items together will reveal the total inventory count.

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







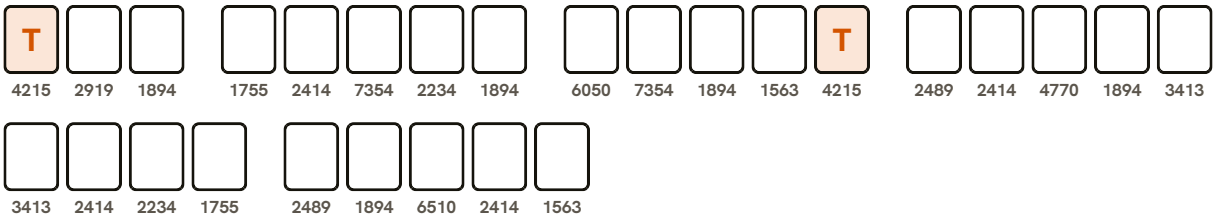
| | | |
|---|---|---|
| 3276 + 2366 = ☐ → T | 3586 + 3910 = ☐ → S | 919 + 1877 = ☐ → W |
| 1777 + 3727 = ☐ → E | 2573 + 3746 = ☐ → C | 3661 + 2007 = ☐ → A |
| 1682 + 2810 = ☐ → H | 5271 + 2700 = ☐ → R | 980 + 1049 = ☐ → G |
| 1578 + 2566 = ☐ → I | | |

Scratch space:

## CLUE 3 Subtraction

> The vault code requires finding the difference between two security keycodes. Let us subtract the backup code from the primary alarm code.

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




8079 - 3864 = ☐ → **T**

6124 - 4369 = ☐ → **R**

4761 - 2272 = ☐ → **L**

5305 - 3411 = ☐ → **E**

10106 - 2752 = ☐ → **G**

6101 - 3687 = ☐ → **O**

8854 - 4084 = ☐ → **V**

3086 - 852 = ☐ → **U**

5357 - 2438 = ☐ → **H**

10537 - 4027 = ☐ → **M**

6683 - 3270 = ☐ → **S**

8856 - 2806 = ☐ → **A**

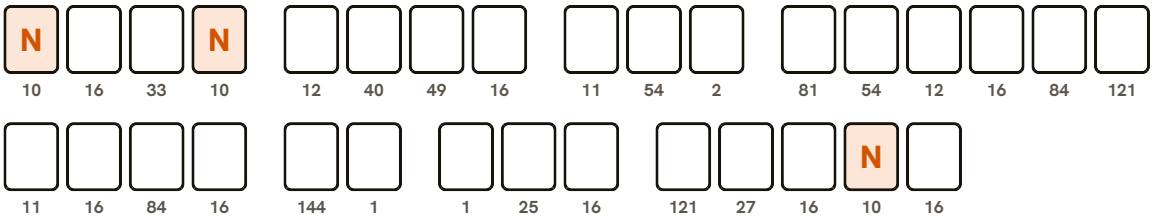
3648 - 2085 = ☐ → **N**

Scratch space:

## CLUE 4 Multiplication facts (1-12)

> The laser grid is arranged in a perfect grid of rows and columns. Multiplying the lasers in each row will help us calculate the safe pathway through.

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




10 × 1 = ☐ → N

12 × 12 = ☐ → A

8 × 5 = ☐ → L

2 × 1 = ☐ → G

9 × 9 = ☐ → F

6 × 9 = ☐ → I

11 × 11 = ☐ → S

12 × 7 = ☐ → R

3 × 9 = ☐ → C

2 × 8 = ☐ → E

1 × 1 = ☐ → T

7 × 7 = ☐ → U

11 × 1 = ☐ → W

3 × 11 = ☐ → O

5 × 5 = ☐ → H

2 × 6 = ☐ → B

Scratch space:

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

> The agents must split the recovery tools equally among their teams. Dividing the tools fairly will give us the final clue to identify the rogue.

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:**

| | | | | |
|---|---|---|---|---|
| 120 ÷ 10 = ☐ | 70 ÷ 7 = ☐ | 7 ÷ 7 = ☐ | 11 ÷ 1 = ☐ | 10 ÷ 2 = ☐ |
| 90 ÷ 10 = ☐ | 12 ÷ 4 = ☐ | 84 ÷ 12 = ☐ | 8 ÷ 1 = ☐ | 20 ÷ 10 = ☐ |
| 66 ÷ 11 = ☐ | | | | |

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

1. The villain scales the elevator shaft, then downloads the top secret blueprints.
2. The villain disables the motion cameras, then downloads the top secret blueprints.
3. The villain sneaks past the laser field, then steals the stealth jet keys.
4. The villain bypasses the retinal scanner, then downloads the top secret blueprints.
5. The villain scales the elevator shaft, then steals the stealth jet keys.
6. The villain scales the elevator shaft, then scrambles the defense mainframe.
7. The villain glides through the air ducts, then clones the command master key.
8. The villain sneaks past the laser field, then clones the command master key.
9. The villain glides through the air ducts, then scrambles the defense mainframe.
10. The villain glides through the air ducts, then steals the stealth jet keys.
11. The villain bypasses the retinal scanner, then steals the stealth jet keys.
12. The villain bypasses the retinal scanner, then scrambles the defense mainframe.

TEACHER / PARENT

# Answer Key

The Spy Academy Codebreakers

## Culprit: Bruce Wayne

Sonic Screwdriver · Signal jammer · Right wrist watch · Neon blue wig · Sour lemon

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

### Clue 1 (Rounding): "THE SNEAK DOES NOT USE A LASER DECRYPTER"

Round 109 to the nearest ten = 110 (T) · Round 934 to the nearest hundred = 900 (U) · Round 4,259 to the nearest hundred = 4300 (L) · Round 5,093 to the nearest thousand = 5000 (K) · Round 8,682 to the nearest thousand = 9000 (E) · Round 87 to the nearest ten = 90 (H) · Round 26 to the nearest ten = 30 (R) · Round 1,677 to the nearest hundred = 1700 (P) · Round 171 to the nearest ten = 170 (O) · Round 373 to the nearest ten = 370 (N) · Round 2,287 to the nearest hundred = 2300 (S) · Round 1,057 to the nearest hundred = 1100 (A) · Round 132 to the nearest ten = 130 (C) · Round 684 to the nearest hundred = 700 (D) · Round 227 to the nearest ten = 230 (Y)

### Clue 2 (Addition): "THE TARGET WEARS A RIGHT WRIST WATCH"

3276 + 2366 = 5642 (T) · 3586 + 3910 = 7496 (S) · 919 + 1877 = 2796 (W) · 1777 + 3727 = 5504 (E) · 2573 + 3746 = 6319 (C) · 3661 + 2007 = 5668 (A) · 1682 + 2810 = 4492 (H) · 5271 + 2700 = 7971 (R) · 980 + 1049 = 2029 (G) · 1578 + 2566 = 4144 (I)

### Clue 3 (Subtraction): "THE ROGUE AGENT LOVES SOUR LEMON"

8079 - 3864 = 4215 (T) · 6124 - 4369 = 1755 (R) · 4761 - 2272 = 2489 (L) · 5305 - 3411 = 1894 (E) · 10106 - 2752 = 7354 (G) · 6101 - 3687 = 2414 (O) · 8854 - 4084 = 4770 (V) · 3086 - 852 = 2234 (U) · 5357 - 2438 = 2919 (H) · 10537 - 4027 = 6510 (M) · 6683 - 3270 = 3413 (S) · 8856 - 2806 = 6050 (A) · 3648 - 2085 = 1563 (N)

### Clue 4 (Multiplication facts (1-12)): "NEON BLUE WIG FIBERS WERE AT THE SCENE"

10 × 1 = 10 (N) · 12 × 12 = 144 (A) · 8 × 5 = 40 (L) · 2 × 1 = 2 (G) · 9 × 9 = 81 (F) · 6 × 9 = 54 (I) · 11 × 11 = 121 (S) · 12 × 7 = 84 (R) · 3 × 9 = 27 (C) · 2 × 8 = 16 (E) · 1 × 1 = 1 (T) · 7 × 7 = 49 (U) · 11 × 1 = 11 (W) · 3 × 11 = 33 (O) · 5 × 5 = 25 (H) · 2 × 6 = 12 (B)

### Clue 5 (Division facts (1-12)): surviving statement is box 4 → Bruce Wayne

120 ÷ 10 = 12 · 70 ÷ 7 = 10 · 7 ÷ 7 = 1 · 11 ÷ 1 = 11 · 10 ÷ 2 = 5 · 90 ÷ 10 = 9 · 12 ÷ 4 = 3 · 84 ÷ 12 = 7 · 8 ÷ 1 = 8 · 20 ÷ 10 = 2 · 66 ÷ 11 = 6