



# Sabotage on the Suspense Set

Grade 6 math · Addition, Multiplication, Subtraction, Rounding, Division · Reading level grades 7-9

Detective: \_\_\_\_\_ Date: \_\_\_\_\_

An anonymous saboteur is terrorizing the set of Hollywood's highly anticipated noir thriller, 'Midnight Shadow.' Props are vanishing, scripts are being rewritten with bizarre plot twists, and the master film reels have been scrambled. The director has called in you, the studio's premier detective, to piece together the clues before the premiere is ruined forever.

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 clapperboard saboteur is** \_\_\_\_\_

# Possible suspects

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

| NAME      | SIGNATURE TECHNIQUE | KEY PROP            | STORYBOARD HAND       | DISGUISE WIG       | DIRECTOR PHOBIA |
|-----------|---------------------|---------------------|-----------------------|--------------------|-----------------|
| Craven    | Shadow Play         | Fake Blood Canister | Right-Handed Sketches | Slicked Back Black | Fear of Heights |
| Park      | Slow Motion         | Vintage Camera      | Left-Handed Sketches  | Messy Auburn       | Fear of Birds   |
| Sofia     | Slow Motion         | Vintage Camera      | Left-Handed Sketches  | Messy Auburn       | Fear of Crowds  |
| Spielberg | Dutch Angle         | Golden Key          | Left-Handed Sketches  | Messy Auburn       | Fear of Crowds  |
| Polanski  | Jump Scare          | Golden Key          | Right-Handed Sketches | Platinum Blonde    | Fear of Heights |
| Bong      | Jump Scare          | Vintage Camera      | Left-Handed Sketches  | Platinum Blonde    | Fear of Heights |
| Alfred    | Shadow Play         | Fake Blood Canister | Left-Handed Sketches  | Platinum Blonde    | Fear of Birds   |
| Wan       | Plot Twist          | Fake Blood Canister | Right-Handed Sketches | Messy Auburn       | Fear of Birds   |
| Nolan     | Slow Motion         | Rotary Phone        | Right-Handed Sketches | Slicked Back Black | Fear of Birds   |
| Carpenter | Dutch Angle         | Vintage Camera      | Right-Handed Sketches | Slicked Back Black | Fear of Crowds  |
| Shyamalan | Jump Scare          | Fake Blood Canister | Left-Handed Sketches  | Slicked Back Black | Fear of Crowds  |
| Guillermo | Shadow Play         | Vintage Camera      | Right-Handed Sketches | Platinum Blonde    | Fear of Crowds  |
| Fritz     | Shadow Play         | Fake Blood Canister | Right-Handed Sketches | Messy Auburn       | Fear of Heights |
| De Palma  | Plot Twist          | Vintage Camera      | Left-Handed Sketches  | Platinum Blonde    | Fear of Birds   |
| Orson     | Slow Motion         | Spooky Music Box    | Right-Handed Sketches | Messy Auburn       | Fear of Birds   |
| Greta     | Dutch Angle         | Fake Blood Canister | Left-Handed Sketches  | Platinum Blonde    | Fear of Birds   |
| Stanley   | Slow Motion         | Spooky Music Box    | Left-Handed Sketches  | Platinum Blonde    | Fear of Birds   |
| Fincher   | Slow Motion         | Rotary Phone        | Left-Handed Sketches  | Platinum Blonde    | Fear of Birds   |
| Lynch     | Jump Scare          | Golden Key          | Right-Handed Sketches | Platinum Blonde    | Fear of Birds   |
| Bigelow   | Plot Twist          | Fake Blood Canister | Left-Handed Sketches  | Platinum Blonde    | Fear of Crowds  |
| Wright    | Slow Motion         | Rotary Phone        | Right-Handed Sketches | Messy Auburn       | Fear of Heights |

### CLUE 1

The editor needs to tally all the film canisters arriving from the daily shoots. Adding the morning deliveries to the afternoon shipments reveals the cabinet lock code.

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

A 3x15 grid of boxes. The first row contains 15 boxes with the following values: 9757 (orange), 5274, 8827, 3185, 9800, 3185, 9422, 8827, 8012, 9757 (orange), 6836, 4532, 8827, 3185, 2364, 4532, 9757 (orange). The second row contains 15 boxes with the following values: 8012, 2899, 7444, 7444, 7584, 2899, 3185, 9422, 4532, 4532, 5460, 7584, 8383, 9800, 3185, 7975, 8012. The third row contains 3 boxes with the following values: 3098, 4532, 6383.

$$5975 + 3782 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{T}}$$

$$3586 + 4389 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{I}}$$

$$1852 + 3422 = \boxed{\phantom{000}} \rightarrow \boxed{\text{H}}$$

$$3438 + 2022 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{K}}$$

$$5830 + 2553 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{M}}$$

$$3940 + 5482 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{P}}$$

$$1499 + 1599 = \boxed{\phantom{000}} \rightarrow \boxed{\text{B}}$$

$$3107 + 3729 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{D}}$$

$$4428 + 3016 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{R}}$$

$$2156 + 2376 = \boxed{\phantom{0000}} \rightarrow \boxed{0}$$

$1127 + 2058 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{S}}$

$$1795 + 1104 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{A}}$$

$$4502 + 4325 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{E}}$$

$$4745 + 3267 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{C}}$$

$$3347 + 6453 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{U}}$$

$3015 + 3368 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{X}}$

$$4372 + 3212 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{Y}}$$

$$1504 + 860 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{N}}$$

Scratch space:

**CLUE 2**
**Multiplication facts (1-12)**

The stage manager is organizing promotional posters stored in equal rows on the wall. Multiplying the rows by the posters in each row gives us the master key number.

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

|     |    |     |    |     |    |    |     |    |     |    |    |    |    |    |     |    |    |
|-----|----|-----|----|-----|----|----|-----|----|-----|----|----|----|----|----|-----|----|----|
| L   |    |     |    |     |    |    |     |    |     |    |    |    |    |    |     |    |    |
| 120 | 77 | 80  | 21 | 100 | 63 | 30 | 108 | 77 | 108 | 81 | 15 | 77 | 21 | 18 | 100 | 77 | 81 |
|     |    |     |    | L   |    |    |     |    |     |    |    |    |    |    |     |    |    |
| 132 | 77 | 121 | 77 | 120 | 77 | 80 | 21  | 63 | 21  | 81 | 18 | 77 | 30 | 77 |     |    |    |

$12 \times 10 = \square \rightarrow \text{L}$

$10 \times 3 = \square \rightarrow \text{N}$

$10 \times 8 = \square \rightarrow \text{F}$

$11 \times 11 = \square \rightarrow \text{R}$

$11 \times 12 = \square \rightarrow \text{W}$

$7 \times 3 = \square \rightarrow \text{T}$

$5 \times 3 = \square \rightarrow \text{K}$

$9 \times 12 = \square \rightarrow \text{D}$

$10 \times 10 = \square \rightarrow \text{H}$

$2 \times 9 = \square \rightarrow \text{C}$

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

$9 \times 7 = \square \rightarrow \text{A}$

$11 \times 7 = \square \rightarrow \text{E}$

Scratch space:

**CLUE 3**

A frantic rewrite left a trail of discarded script pages across the soundstage. Subtracting the shredded pages from the original draft count reveals the hidden locker combo.

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

Diagram illustrating a 2D array structure with 16 columns and 2 rows. The top row contains 16 cells, with the 10th cell containing the letter 'T'. The bottom row contains 16 cells. Below each cell is a number.

|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| T    |      |      |      |      |      |      |      |      | T    |      |      |      |      |      |      |      | T    |      |      |
| 1632 | 4687 | 4540 | 7732 | 4558 | 7732 | 2515 | 4540 | 7871 | 1632 | 7732 | 4687 | 4558 | 8421 | 8421 | 4540 | 5134 | 1632 | 4687 | 4540 |
|      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 2515 | 7741 | 4323 | 4540 | 1293 | 8421 | 4540 | 8421 | 7871 | 8401 | 1293 | 7732 | 4558 | 2501 | 4540 |      |      |      |      |      |

$$4273 - 2641 = \boxed{\phantom{000}} \rightarrow \boxed{\text{T}}$$

$$11406 - 3674 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{S}}$$

$$9437 - 4897 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{E}}$$

$$8803 - 382 = \boxed{\phantom{000}} \rightarrow \boxed{\text{N}}$$

$9435 - 1564 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{C}}$

$$7491 - 2804 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{H}}$$

$$4633 - 3340 = \boxed{\phantom{000}} \rightarrow \boxed{0}$$

$$5351 - 2850 = \boxed{\phantom{000}} \rightarrow \boxed{\text{R}}$$

$9021 - 620 = \boxed{\phantom{000}} \rightarrow \boxed{\text{L}}$

$$3317 - 802 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{P}}$$

$$5324 - 766 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{U}}$$

$$7996 - 3673 = \boxed{\phantom{0000}} \rightarrow \boxed{\text{G}}$$

$$8819 - 1078 = \boxed{\phantom{000}} \rightarrow \boxed{\text{I}}$$

$9028 - 3894 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

## CLUE 4 Rounding

To hide the production expenses from the studio heads, the line producer rounds the exact camera rental budget to the nearest thousand dollars on the ledger.

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

|          |      |      |      |      |     |      |     |      |      |     |     |      |      |     |    |      |     |      |  |
|----------|------|------|------|------|-----|------|-----|------|------|-----|-----|------|------|-----|----|------|-----|------|--|
| <b>B</b> |      |      |      |      |     |      |     |      |      |     |     |      |      |     |    |      |     |      |  |
| 30       | 900  | 9000 | 3700 | 500  | 290 | 7000 | 300 | 3700 | 370  | 20  | 290 | 370  | 130  | 200 | 20 | 5000 | 130 | 1700 |  |
|          |      |      |      |      |     |      |     |      |      |     |     |      |      |     |    |      |     |      |  |
| 700      | 5000 | 7000 | 9000 | 3700 | 370 | 20   | 290 | 200  | 9000 | 900 | 900 | 5000 | 1700 |     |    |      |     |      |  |

Round 30 to the nearest ten  → **B**

Round 273 to the nearest hundred  → **Y**

Round 185 to the nearest hundred  → **C**

Round 8,521 to the nearest thousand  → **O**

Round 4,835 to the nearest thousand  → **A**

Round 515 to the nearest hundred  → **D**

Round 3,711 to the nearest hundred  → **N**

Round 22 to the nearest ten  → **H**

Round 735 to the nearest hundred  → **W**

Round 880 to the nearest hundred  → **L**

Round 292 to the nearest ten  → **E**

Round 366 to the nearest ten  → **T**

Round 6,535 to the nearest thousand  → **S**

Round 126 to the nearest ten  → **I**

Round 1,654 to the nearest hundred  → **R**

Scratch space:

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

The head of security must distribute walkie-talkies evenly among the security teams. Dividing the total inventory by the number of active crews reveals the broadcast channel.

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:**

$56 \div 8 = \boxed{\phantom{00}}$

$60 \div 5 = \boxed{\phantom{00}}$

$48 \div 8 = \boxed{\phantom{00}}$

$120 \div 12 = \boxed{\phantom{00}}$

$45 \div 9 = \boxed{\phantom{00}}$

$12 \div 4 = \boxed{\phantom{00}}$

$8 \div 2 = \boxed{\phantom{00}}$

$5 \div 5 = \boxed{\phantom{00}}$

$18 \div 9 = \boxed{\phantom{00}}$

$40 \div 5 = \boxed{\phantom{00}}$

$99 \div 9 = \boxed{\phantom{00}}$

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

1. The villain slows down time with an eerie slow motion sequence, then winds up a creepy spooky music box.
2. The villain slows down time with an eerie slow motion sequence, then locks the stage door with a heavy golden key.
3. The villain executes a shocking mid-act plot twist, then cuts the wire of a vintage rotary phone.
4. The villain casts an ominous silhouette with dramatic shadow play, then blinds the witness with a vintage camera flash.
5. The villain slows down time with an eerie slow motion sequence, then blinds the witness with a vintage camera flash.
6. The villain executes a shocking mid-act plot twist, then blinds the witness with a vintage camera flash.
7. The villain slows down time with an eerie slow motion sequence, then cuts the wire of a vintage rotary phone.
8. The villain slows down time with an eerie slow motion sequence, then splashes a canister of fake blood across the set.
9. The villain casts an ominous silhouette with dramatic shadow play, then splashes a canister of fake blood across the set.
10. The villain initiates an abrupt jump scare, then blinds the witness with a vintage camera flash.
11. The villain tilts the camera into a steep Dutch angle, then splashes a canister of fake blood across the set.
12. The villain initiates an abrupt jump scare, then splashes a canister of fake blood across the set.

# Answer Key

## Sabotage on the Suspense Set

### Culprit: Alfred

Shadow Play · Fake Blood Canister · Left-Handed Sketches · Platinum Blonde · Fear of Birds

Trail: Start 21 → Clue 1 19 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

### Clue 1 (Addition): "THE SUSPECT DOES NOT CARRY A SPOOKY MUSIC BOX"

$5975 + 3782 = 9757$  (T) ·  $3586 + 4389 = 7975$  (I) ·  $1852 + 3422 = 5274$  (H) ·  $3438 + 2022 = 5460$  (K) ·  $5830 + 2553 = 8383$  (M) ·  $3940 + 5482 = 9422$  (P) ·  $1499 + 1599 = 3098$  (B) ·  $3107 + 3729 = 6836$  (D) ·  $4428 + 3016 = 7444$  (R) ·  $2156 + 2376 = 4532$  (O) ·  $1127 + 2058 = 3185$  (S) ·  $1795 + 1104 = 2899$  (A) ·  $4502 + 4325 = 8827$  (E) ·  $4745 + 3267 = 8012$  (C) ·  $3347 + 6453 = 9800$  (U) ·  $3015 + 3368 = 6383$  (X) ·  $4372 + 3212 = 7584$  (Y) ·  $1504 + 860 = 2364$  (N)

### Clue 2 (Multiplication facts (1-12)): "LEFT HANDED SKETCHES WERE LEFT AT SCENE"

$12 \times 10 = 120$  (L) ·  $10 \times 3 = 30$  (N) ·  $10 \times 8 = 80$  (F) ·  $11 \times 11 = 121$  (R) ·  $11 \times 12 = 132$  (W) ·  $7 \times 3 = 21$  (T) ·  $5 \times 3 = 15$  (K) ·  $9 \times 12 = 108$  (D) ·  $10 \times 10 = 100$  (H) ·  $2 \times 9 = 18$  (C) ·  $9 \times 9 = 81$  (S) ·  $9 \times 7 = 63$  (A) ·  $11 \times 7 = 77$  (E)

### Clue 3 (Subtraction): "THE SUSPECT SHUNNED THE PIGEON ENCLOSURE"

$4273 - 2641 = 1632$  (T) ·  $11406 - 3674 = 7732$  (S) ·  $9437 - 4897 = 4540$  (E) ·  $8803 - 382 = 8421$  (N) ·  $9435 - 1564 = 7871$  (C) ·  $7491 - 2804 = 4687$  (H) ·  $4633 - 3340 = 1293$  (O) ·  $5351 - 2850 = 2501$  (R) ·  $9021 - 620 = 8401$  (L) ·  $3317 - 802 = 2515$  (P) ·  $5324 - 766 = 4558$  (U) ·  $7996 - 3673 = 4323$  (G) ·  $8819 - 1078 = 7741$  (I) ·  $9028 - 3894 = 5134$  (D)

### Clue 4 (Rounding): "BLONDE SYNTHETIC HAIR WAS ON THE COLLAR"

Round 30 to the nearest ten = 30 (B) · Round 273 to the nearest hundred = 300 (Y) · Round 185 to the nearest hundred = 200 (C) · Round 8,521 to the nearest thousand = 9000 (O) · Round 4,835 to the nearest thousand = 5000 (A) · Round 515 to the nearest hundred = 500 (D) · Round 3,711 to the nearest hundred = 3700 (N) · Round 22 to the nearest ten = 20 (H) · Round 735 to the nearest hundred = 700 (W) · Round 880 to the nearest hundred = 900 (L) · Round 292 to the nearest ten = 290 (E) · Round 366 to the nearest ten = 370 (T) · Round 6,535 to the nearest thousand = 7000 (S) · Round 126 to the nearest ten = 130 (I) · Round 1,654 to the nearest hundred = 1700 (R)

### Clue 5 (Division facts (1-12)): surviving statement is box 9 → Alfred

$56 \div 8 = 7$  ·  $60 \div 5 = 12$  ·  $48 \div 8 = 6$  ·  $120 \div 12 = 10$  ·  $45 \div 9 = 5$  ·  $12 \div 4 = 3$  ·  $8 \div 2 = 4$  ·  $5 \div 5 = 1$  ·  $18 \div 9 = 2$  ·  $40 \div 5 = 8$  ·  $99 \div 9 = 11$