



The Missing Masterpiece

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

Detective: _____ Date: _____

A priceless final cut of the year's most anticipated thriller movie has been stolen from the high-security editing bay. The studio is locked down, and the culprit is one of the crew members on set.

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 director is _____

Possible suspects

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

NAME	CAMERA SPECIALTY	DIRECTOR'S TRICK	EDITING STYLE	SET HEADGEAR	ON-SET DISTRACTION
Ridley Scott	Drone Shots	Plot Twist reversal	Match Cuts style	Knitted Beanie	Bright Spotlight glare
James Wan	Crane Camera setup	Cliffhanger pause	Smash Cuts style	Baseball Cap	Loud Megaphone blast
Stanley Kubrick	Dolly Grip motion	Cliffhanger pause	Smash Cuts style	Knitted Beanie	Hot Popcorn scent
Francis Coppola	Crane Camera setup	Jump Scare shock	Match Cuts style	Knitted Beanie	Bright Spotlight glare
Steven Spielberg	Crane Camera setup	Red Herring distraction	Match Cuts style	Knitted Beanie	Hot Popcorn scent
George Lucas	Handheld Closeups	Jump Scare shock	Match Cuts style	Knitted Beanie	Bright Spotlight glare
M Night Shyamalan	Steadicam Rigging	Flashback sequence	Match Cuts style	Heavy Headphones	Loud Megaphone blast
Peter Jackson	Handheld Closeups	Red Herring distraction	Match Cuts style	Baseball Cap	Bright Spotlight glare
Guillermo del Toro	Drone Shots	Red Herring distraction	Match Cuts style	Knitted Beanie	Bright Spotlight glare
David Fincher	Dolly Grip motion	Jump Scare shock	Smash Cuts style	Knitted Beanie	Bright Spotlight glare
Wes Craven	Drone Shots	Flashback sequence	Match Cuts style	Knitted Beanie	Bright Spotlight glare
David Lynch	Drone Shots	Jump Scare shock	Smash Cuts style	Knitted Beanie	Hot Popcorn scent
Agatha Christie	Dolly Grip motion	Red Herring distraction	Smash Cuts style	Knitted Beanie	Loud Megaphone blast
Martin Scorsese	Handheld Closeups	Jump Scare shock	Match Cuts style	Knitted Beanie	Loud Megaphone blast
James Cameron	Drone Shots	Red Herring distraction	Match Cuts style	Baseball Cap	Bright Spotlight glare
Bong Joon Ho	Steadicam Rigging	Cliffhanger pause	Smash Cuts style	Knitted Beanie	Bright Spotlight glare
Quentin Tarantino	Steadicam Rigging	Jump Scare shock	Match Cuts style	Knitted Beanie	Loud Megaphone blast
Jordan Peele	Steadicam Rigging	Jump Scare shock	Smash Cuts style	Heavy Headphones	Hot Popcorn scent
Denis Villeneuve	Crane Camera setup	Flashback sequence	Smash Cuts style	Baseball Cap	Bright Spotlight glare
Edgar Wright	Crane Camera setup	Plot Twist reversal	Match Cuts style	Knitted Beanie	Hot Popcorn scent
John Carpenter	Steadicam Rigging	Red Herring distraction	Smash Cuts style	Baseball Cap	Loud Megaphone blast

CLUE 1 Addition

We count the total canisters of physical film rolls recovered from the main soundstage floor to begin our inventory.

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

T																	T
4680	4894	8798	9762	7339	4328	4328	9073	7339	3304	8782	8219	8798	4671	3304	8219	4680	
			T					T	T					T			
9446	4671	8798	4680	4894	8798	4129	4328	8219	4680	4680	9251	7339	4671	4680			
6910	8798	9762	8798	6910	4671	9073	4328										

$2386 + 2294 = \square \rightarrow \text{T}$	$5514 + 3559 = \square \rightarrow \text{A}$	$4209 + 4573 = \square \rightarrow \text{D}$
$2343 + 2551 = \square \rightarrow \text{H}$	$1537 + 2592 = \square \rightarrow \text{P}$	$2518 + 1810 = \square \rightarrow \text{L}$
$4414 + 2496 = \square \rightarrow \text{R}$	$5669 + 2550 = \square \rightarrow \text{O}$	$5494 + 3304 = \square \rightarrow \text{E}$
$4843 + 2496 = \square \rightarrow \text{I}$	$3207 + 6239 = \square \rightarrow \text{U}$	$2952 + 1719 = \square \rightarrow \text{S}$
$4463 + 4788 = \square \rightarrow \text{W}$	$3956 + 5806 = \square \rightarrow \text{V}$	$1804 + 1500 = \square \rightarrow \text{N}$

Scratch space:

CLUE 2 Subtraction

A sudden power outage cuts the studio's digital storage bank, forcing us to calculate the missing terabytes of footage.

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

R												R							
2855	7618	1030	5410	2541	5410	3877	1018	3629	7094	3629	1030	2855	7618	6953	3494	7094	3877	1018	8741

3494	3877	2541	4832	5410	4832	1863	2541	8741	8741	2541	2160	2351	7094

$4049 - 1194 = \square \rightarrow$ R	$1149 - 131 = \square \rightarrow$ N	$4553 - 2012 = \square \rightarrow$ T
$8534 - 1581 = \square \rightarrow$ P	$6142 - 3982 = \square \rightarrow$ Y	$9662 - 4252 = \square \rightarrow$ H
$3500 - 2470 = \square \rightarrow$ G	$6838 - 2006 = \square \rightarrow$ C	$4383 - 889 = \square \rightarrow$ M
$5142 - 2791 = \square \rightarrow$ L	$8795 - 1177 = \square \rightarrow$ I	$2418 - 555 = \square \rightarrow$ U
$8323 - 4446 = \square \rightarrow$ A	$7873 - 779 = \square \rightarrow$ E	$6765 - 3136 = \square \rightarrow$ D
$11755 - 3014 = \square \rightarrow$ S		

Scratch space:

CLUE 3
Multiplication facts (1-12)

The grip crew stacks heavy metal equipment crates into neat, identical rows, and we multiply to find the total gear count.

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

S															
88	18	49	6	6	30	6	35	108	99	64	30	35	18	42	

S														
88	56	27	42	12	30	35	18	42	35	12	108	64	110	

$11 \times 8 = \square \rightarrow \boxed{\text{S}}$

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

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

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

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

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

$9 \times 3 = \square \rightarrow \boxed{\text{O}}$

$7 \times 7 = \square \rightarrow \boxed{\text{U}}$

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

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

$12 \times 9 = \square \rightarrow \boxed{\text{A}}$

$1 \times 6 = \square \rightarrow \boxed{\text{N}}$

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

$8 \times 7 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 4

Rounding

A security camera sensor nearby only registers heavy equipment weights rounded to the nearest ten kilograms.

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

L																	
90	3700	110	4300	370	3700	30	3000	430	2300	1100	5000	430	3000	4300	4300	3700	2300

370	3700	1100	430	3000	3700

Round 94 to the nearest ten → **L**

Round 2,725 to the nearest thousand → **I**

Round 4,698 to the nearest thousand → **K**

Round 1,111 to the nearest hundred → **A**

Round 33 to the nearest ten → **H**

Round 4,258 to the nearest hundred → **T**

Round 3,740 to the nearest hundred → **E**

Round 107 to the nearest ten → **F**

Round 2,334 to the nearest hundred → **D**

Round 433 to the nearest ten → **N**

Round 371 to the nearest ten → **B**

Scratch space:

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

To sweep the entire backlot quickly, we divide the security team evenly among the remaining editing suites.

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:

$36 \div 9 = \boxed{}$

$70 \div 7 = \boxed{}$

$121 \div 11 = \boxed{}$

$12 \div 6 = \boxed{}$

$28 \div 4 = \boxed{}$

$72 \div 12 = \boxed{}$

$30 \div 6 = \boxed{}$

$7 \div 7 = \boxed{}$

$33 \div 11 = \boxed{}$

$36 \div 3 = \boxed{}$

$99 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sets up the drone shots, then reveals a plot twist reversal.
2. The villain speeds up the dolly grip motion, then triggers a jump scare shock.
3. The villain straps on the steadicam rigging, then triggers a jump scare shock.
4. The villain sets up the drone shots, then creates a red herring distraction.
5. The villain balances the crane camera setup, then creates a red herring distraction.
6. The villain speeds up the dolly grip motion, then inserts a flashback sequence.
7. The villain speeds up the dolly grip motion, then forces a cliffhanger pause.
8. The villain sets up the drone shots, then inserts a flashback sequence.
9. The villain captures shaky handheld closeups, then creates a red herring distraction.
10. The villain captures shaky handheld closeups, then triggers a jump scare shock.
11. The villain balances the crane camera setup, then triggers a jump scare shock.
12. The villain sets up the drone shots, then forces a cliffhanger pause.

Answer Key

The Missing Masterpiece

Culprit: Wes Craven

Drone Shots · Flashback sequence · Match Cuts style · Knitted Beanie · Bright Spotlight glare

Trail: Start 21 → Clue 1 19 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE THE PLOT TWIST REVERSAL"

$2386 + 2294 = 4680$ (T) · $5514 + 3559 = 9073$ (A) · $4209 + 4573 = 8782$ (D) · $2343 + 2551 = 4894$ (H) · $1537 + 2592 = 4129$ (P) · $2518 + 1810 = 4328$ (L) · $4414 + 2496 = 6910$ (R) · $5669 + 2550 = 8219$ (O) · $5494 + 3304 = 8798$ (E) · $4843 + 2496 = 7339$ (I) · $3207 + 6239 = 9446$ (U) · $2952 + 1719 = 4671$ (S) · $4463 + 4788 = 9251$ (W) · $3956 + 5806 = 9762$ (V) · $1804 + 1500 = 3304$ (N)

Clue 2 (Subtraction): "RIGHT HANDED GRIP MEANS MATCH CUTS STYLE"

$4049 - 1194 = 2855$ (R) · $1149 - 131 = 1018$ (N) · $4553 - 2012 = 2541$ (T) · $8534 - 1581 = 6953$ (P) · $6142 - 3982 = 2160$ (Y) · $9662 - 4252 = 5410$ (H) · $3500 - 2470 = 1030$ (G) · $6838 - 2006 = 4832$ (C) · $4383 - 889 = 3494$ (M) · $5142 - 2791 = 2351$ (L) · $8795 - 1177 = 7618$ (I) · $2418 - 555 = 1863$ (U) · $8323 - 4446 = 3877$ (A) · $7873 - 779 = 7094$ (E) · $6765 - 3136 = 3629$ (D) · $11755 - 3014 = 8741$ (S)

Clue 3 (Multiplication facts (1-12)): "SHUNNING A BRIGHT SPOTLIGHT GLARE"

$11 \times 8 = 88$ (S) · $5 \times 6 = 30$ (I) · $8 \times 8 = 64$ (R) · $1 \times 12 = 12$ (L) · $9 \times 11 = 99$ (B) · $5 \times 7 = 35$ (G) · $9 \times 3 = 27$ (O) · $7 \times 7 = 49$ (U) · $10 \times 11 = 110$ (E) · $7 \times 6 = 42$ (T) · $12 \times 9 = 108$ (A) · $1 \times 6 = 6$ (N) · $2 \times 9 = 18$ (H) · $8 \times 7 = 56$ (P)

Clue 4 (Rounding): "LEFT BEHIND A KNITTED BEANIE"

Round 94 to the nearest ten = 90 (L) · Round 2,725 to the nearest thousand = 3000 (I) · Round 4,698 to the nearest thousand = 5000 (K) · Round 1,111 to the nearest hundred = 1100 (A) · Round 33 to the nearest ten = 30 (H) · Round 4,258 to the nearest hundred = 4300 (T) · Round 3,740 to the nearest hundred = 3700 (E) · Round 107 to the nearest ten = 110 (F) · Round 2,334 to the nearest hundred = 2300 (D) · Round 433 to the nearest ten = 430 (N) · Round 371 to the nearest ten = 370 (B)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Wes Craven

$36 \div 9 = 4$ · $70 \div 7 = 10$ · $121 \div 11 = 11$ · $12 \div 6 = 2$ · $28 \div 4 = 7$ · $72 \div 12 = 6$ · $30 \div 6 = 5$ · $7 \div 7 = 1$ · $33 \div 11 = 3$ · $36 \div 3 = 12$ · $99 \div 11 = 9$