



The Louvre Museum Mystery

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 1-2

Detective: _____ Date: _____

Oh no! A famous painting is missing from the museum. The golden frame is empty. We must search the rooms of the Louvre. Help the guards find the sneaky Art Snatcher before the morning visitors arrive!

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 Art Snatcher is _____

Possible suspects

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

NAME	STEALTH GEAR	BAG SPY GADGET	EYE GEAR	HAIR STYLE	MUSEUM TRAP
Georges	Smoke Paint Bomb	Flashlight Pen	Wears dark glasses	Messy Paint Splashed	Bright Flash Cameras
Vincent	Silent Rope Ladder	Glow Sketchbook	Wears dark glasses	Curly Sunset Red	Sticky Palette Paint
Hugo	Suction Cup Shoes	Grappling Brush	Does not wear glasses	Messy Paint Splashed	Bright Flash Cameras
Rene	Suction Cup Shoes	Squeaky Beret	Wears dark glasses	Spiky Neon Blue	Slippery Floor Wax
Marc	Silent Rope Ladder	Grappling Brush	Wears dark glasses	Spiky Neon Blue	Bright Flash Cameras
Jules	Suction Cup Shoes	Flashlight Pen	Does not wear glasses	Spiky Neon Blue	Sticky Palette Paint
Claude	Smoke Paint Bomb	Grappling Brush	Does not wear glasses	Messy Paint Splashed	Slippery Floor Wax
Jean	Suction Cup Shoes	Glow Sketchbook	Wears dark glasses	Spiky Neon Blue	Slippery Floor Wax
Edgar	Laser Glass Cutter	Magnifying Lens	Wears dark glasses	Curly Sunset Red	Bright Flash Cameras
Camille	Smoke Paint Bomb	Flashlight Pen	Does not wear glasses	Messy Paint Splashed	Bright Flash Cameras
Pierre	Suction Cup Shoes	Magnifying Lens	Wears dark glasses	Messy Paint Splashed	Bright Flash Cameras
Chloe	Smoke Paint Bomb	Magnifying Lens	Wears dark glasses	Spiky Neon Blue	Slippery Floor Wax
Sophie	Smoke Paint Bomb	Magnifying Lens	Wears dark glasses	Curly Sunset Red	Slippery Floor Wax
Paul	Silent Rope Ladder	Magnifying Lens	Wears dark glasses	Spiky Neon Blue	Sticky Palette Paint
Marie	Invisibility Paint	Grappling Brush	Does not wear glasses	Spiky Neon Blue	Sticky Palette Paint
Henri	Silent Rope Ladder	Flashlight Pen	Wears dark glasses	Spiky Neon Blue	Slippery Floor Wax
Odilon	Silent Rope Ladder	Magnifying Lens	Does not wear glasses	Messy Paint Splashed	Bright Flash Cameras
Auguste	Laser Glass Cutter	Flashlight Pen	Wears dark glasses	Spiky Neon Blue	Slippery Floor Wax
Leo	Laser Glass Cutter	Glow Sketchbook	Does not wear glasses	Messy Paint Splashed	Slippery Floor Wax
Pablo	Invisibility Paint	Grappling Brush	Does not wear glasses	Spiky Neon Blue	Slippery Floor Wax
Adele	Laser Glass Cutter	Magnifying Lens	Wears dark glasses	Messy Paint Splashed	Sticky Palette Paint

CLUE 1 Rounding

We checked the security radar. It only shows rounded numbers. We rounded the steps to find this first clue!

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

T			T											T				
110	2000	30	110	2000	290	30	1300	200	9000	30	20	3700	9000	110	500	30	900	1100

T													T	
110	2000	30	20	370	170	30	900	7000	300	1700	30	1100	30	110

Round 110 to the nearest ten → **T**

Round 154 to the nearest hundred → **D**

Round 16 to the nearest ten → **S**

Round 495 to the nearest hundred → **W**

Round 1,718 to the nearest hundred → **B**

Round 290 to the nearest hundred → **Y**

Round 28 to the nearest ten → **E**

Round 8,774 to the nearest thousand → **O**

Round 291 to the nearest ten → **I**

Round 1,148 to the nearest hundred → **R**

Round 3,715 to the nearest hundred → **N**

Round 374 to the nearest ten → **Q**

Round 6,785 to the nearest thousand → **K**

Round 1,297 to the nearest hundred → **F**

Round 171 to the nearest ten → **U**

Round 2,405 to the nearest thousand → **H**

Round 941 to the nearest hundred → **A**

Scratch space:

CLUE 2 Addition

Let us count the wet paintbrushes left on the floor. Adding them up gives us a new clue!

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

W									
6032	3501	6365	5870	4780	6934	8155	8155	2295	8770 7480

4145	4780	6934	6738	3492	2295	4145	4145	3501	4145	7799	6457	6682	2043	3501	3501	8518	7666	6682	6457

6365	8770	2295	8518	3501

$1949 + 4083 = \square \rightarrow \text{W}$

$2266 + 3604 = \square \rightarrow \text{O}$

$1594 + 1898 = \square \rightarrow \text{L}$

$2598 + 4882 = \square \rightarrow \text{K}$

$4628 + 2054 = \square \rightarrow \text{T}$

$826 + 1469 = \square \rightarrow \text{A}$

$1193 + 850 = \square \rightarrow \text{H}$

$2943 + 4723 = \square \rightarrow \text{P}$

$3083 + 3851 = \square \rightarrow \text{N}$

$4240 + 2125 = \square \rightarrow \text{F}$

$3992 + 4163 = \square \rightarrow \text{D}$

$5014 + 3504 = \square \rightarrow \text{M}$

$2529 + 5270 = \square \rightarrow \text{B}$

$3343 + 3114 = \square \rightarrow \text{Y}$

$4617 + 4153 = \square \rightarrow \text{R}$

$4486 + 2252 = \square \rightarrow \text{G}$

$2725 + 2055 = \square \rightarrow \text{U}$

$1990 + 1511 = \square \rightarrow \text{E}$

$1645 + 2500 = \square \rightarrow \text{S}$

Scratch space:

CLUE 3

Subtraction

The thief dropped some crayons. We take away the broken ones to see what is left!

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

T			T											
8510	4974	5991	8510	4974	8326	5991	5972	5164	1721	8326	1021	5164	1950	8324

5972	3661	5991	5164	4974	1721	8771	3280	8015	7540	5991	7365	5972	1721	1950	1950	3661	5164

$8602 - 92 = \square \rightarrow \boxed{\text{T}}$

$9293 - 522 = \square \rightarrow \boxed{\text{Y}}$

$7891 - 2727 = \square \rightarrow \boxed{\text{S}}$

$10219 - 1895 = \square \rightarrow \boxed{\text{N}}$

$12013 - 3998 = \square \rightarrow \boxed{\text{A}}$

$4697 - 1036 = \square \rightarrow \boxed{\text{R}}$

$12539 - 4999 = \square \rightarrow \boxed{\text{X}}$

$9746 - 3755 = \square \rightarrow \boxed{\text{E}}$

$4409 - 2459 = \square \rightarrow \boxed{\text{O}}$

$9193 - 4219 = \square \rightarrow \boxed{\text{H}}$

$3767 - 2046 = \square \rightarrow \boxed{\text{L}}$

$7420 - 1448 = \square \rightarrow \boxed{\text{F}}$

$9170 - 1805 = \square \rightarrow \boxed{\text{D}}$

$7534 - 4254 = \square \rightarrow \boxed{\text{W}}$

$11232 - 2906 = \square \rightarrow \boxed{\text{I}}$

$4272 - 3251 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

We see neat rows of clay pots. We multiply the rows to unlock the next secret!

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

W																	
35	25	2	11	63	40	132	77	24	55	121	64	5	70	63	25		
77	28	16	56	40	132	77	11	40	28	99	25	77	28	56	28	63	25

$5 \times 7 = \square \rightarrow \text{W}$

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

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

$8 \times 2 = \square \rightarrow \text{R}$

$11 \times 1 = \square \rightarrow \text{O}$

$11 \times 5 = \square \rightarrow \text{I}$

$2 \times 1 = \square \rightarrow \text{F}$

$11 \times 9 = \square \rightarrow \text{H}$

$10 \times 4 = \square \rightarrow \text{N}$

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

$4 \times 6 = \square \rightarrow \text{P}$

$1 \times 5 = \square \rightarrow \text{B}$

$8 \times 8 = \square \rightarrow \text{Y}$

$7 \times 10 = \square \rightarrow \text{L}$

$7 \times 4 = \square \rightarrow \text{T}$

$8 \times 7 = \square \rightarrow \text{A}$

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

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

Scratch space:

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

We must share the heavy keys equally among the guards. This math shows us the last 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:

$10 \div 2 = \boxed{}$

$36 \div 3 = \boxed{}$

$12 \div 4 = \boxed{}$

$36 \div 4 = \boxed{}$

$40 \div 4 = \boxed{}$

$4 \div 4 = \boxed{}$

$44 \div 11 = \boxed{}$

$70 \div 10 = \boxed{}$

$60 \div 10 = \boxed{}$

$8 \div 4 = \boxed{}$

$64 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain cuts the thick glass case, then dashes down the long museum hallway.
2. The villain paints a fake copy of the art, then dashes down the long museum hallway.
3. The villain sneaks past the sleepy night guards, then hides behind a giant marble statue.
4. The villain climbs down from the high skylight, then hides behind a giant marble statue.
5. The villain swipes the golden picture frame, then escapes into the dark sculpture room.
6. The villain paints a fake copy of the art, then escapes into the dark sculpture room.
7. The villain climbs down from the high skylight, then escapes into the dark sculpture room.
8. The villain swipes the golden picture frame, then slides under the laser security beams.
9. The villain paints a fake copy of the art, then runs out into the beautiful Paris night.
10. The villain swipes the golden picture frame, then hides behind a giant marble statue.
11. The villain climbs down from the high skylight, then slides under the laser security beams.
12. The villain cuts the thick glass case, then escapes into the dark sculpture room.

Answer Key

The Louvre Museum Mystery

Culprit: Jean

Suction Cup Shoes · Glow Sketchbook · Wears dark glasses · Spiky Neon Blue · Slippery Floor Wax

Trail: Start 21 → Clue 1 20 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF DOES NOT WEAR THE SQUEAKY BERET"

Round 110 to the nearest ten = 110 (T) · Round 154 to the nearest hundred = 200 (D) · Round 16 to the nearest ten = 20 (S) · Round 495 to the nearest hundred = 500 (W) · Round 1,718 to the nearest hundred = 1700 (B) · Round 290 to the nearest hundred = 300 (Y) · Round 28 to the nearest ten = 30 (E) · Round 8,774 to the nearest thousand = 9000 (O) · Round 291 to the nearest ten = 290 (I) · Round 1,148 to the nearest hundred = 1100 (R) · Round 3,715 to the nearest hundred = 3700 (N) · Round 374 to the nearest ten = 370 (Q) · Round 6,785 to the nearest thousand = 7000 (K) · Round 1,297 to the nearest hundred = 1300 (F) · Round 171 to the nearest ten = 170 (U) · Round 2,405 to the nearest thousand = 2000 (H) · Round 941 to the nearest hundred = 900 (A)

Clue 2 (Addition): "WE FOUND DARK SUNGLASSES BY THE EMPTY FRAME"

$1949 + 4083 = 6032$ (W) · $2266 + 3604 = 5870$ (O) · $1594 + 1898 = 3492$ (L) · $2598 + 4882 = 7480$ (K) · $4628 + 2054 = 6682$ (T) · $826 + 1469 = 2295$ (A) · $1193 + 850 = 2043$ (H) · $2943 + 4723 = 7666$ (P) · $3083 + 3851 = 6934$ (N) · $4240 + 2125 = 6365$ (F) · $3992 + 4163 = 8155$ (D) · $5014 + 3504 = 8518$ (M) · $2529 + 5270 = 7799$ (B) · $3343 + 3114 = 6457$ (Y) · $4617 + 4153 = 8770$ (R) · $4486 + 2252 = 6738$ (G) · $2725 + 2055 = 4780$ (U) · $1990 + 1511 = 3501$ (E) · $1645 + 2500 = 4145$ (S)

Clue 3 (Subtraction): "THE THIEF SLIPS ON FRESHLY WAXED FLOORS"

$8602 - 92 = 8510$ (T) · $9293 - 522 = 8771$ (Y) · $7891 - 2727 = 5164$ (S) · $10219 - 1895 = 8324$ (N) · $12013 - 3998 = 8015$ (A) · $4697 - 1036 = 3661$ (R) · $12539 - 4999 = 7540$ (X) · $9746 - 3755 = 5991$ (E) · $4409 - 2459 = 1950$ (O) · $9193 - 4219 = 4974$ (H) · $3767 - 2046 = 1721$ (L) · $7420 - 1448 = 5972$ (F) · $9170 - 1805 = 7365$ (D) · $7534 - 4254 = 3280$ (W) · $11232 - 2906 = 8326$ (I) · $4272 - 3251 = 1021$ (P)

Clue 4 (Multiplication facts (1-12)): "WE FOUND SPIKY BLUE STRANDS ON THE STATUE"

$5 \times 7 = 35$ (W) · $7 \times 9 = 63$ (U) · $12 \times 11 = 132$ (D) · $8 \times 2 = 16$ (R) · $11 \times 1 = 11$ (O) · $11 \times 5 = 55$ (I) · $2 \times 1 = 2$ (F) · $11 \times 9 = 99$ (H) · $10 \times 4 = 40$ (N) · $11 \times 11 = 121$ (K) · $4 \times 6 = 24$ (P) · $1 \times 5 = 5$ (B) · $8 \times 8 = 64$ (Y) · $7 \times 10 = 70$ (L) · $7 \times 4 = 28$ (T) · $8 \times 7 = 56$ (A) · $7 \times 11 = 77$ (S) · $5 \times 5 = 25$ (E)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Jean

$10 \div 2 = 5$ · $36 \div 3 = 12$ · $12 \div 4 = 3$ · $36 \div 4 = 9$ · $40 \div 4 = 10$ · $4 \div 4 = 1$ · $44 \div 11 = 4$ · $70 \div 10 = 7$ · $60 \div 10 = 6$ · $8 \div 4 = 2$ · $64 \div 8 = 8$