



The Case of the Missing Golden Scroll

Grade 3 math · Place value, Addition, Subtraction, Rounding, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone snuck into the St. Thomas Discovery Museum during the evening light display and took the famous Golden Scroll! Detective, examine the clues, decode the evidence, and find out which suspect is responsible before the morning service!

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 scroll snatcher is _____

Possible suspects

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

NAME	SPECIAL GEAR	BADGE EMBLEM	OBSERVED TRAIT	HAIR COLOR	DISTRACTION
Phoebe Miller	Silver Bell	Dove Patch	Left-handed writer	Brown hair	Organ music rumble
Miriam Cross	Clay Pitcher	Dove Patch	Left-handed writer	Silver hair	Organ music rumble
Timothy Wells	Brass Lantern	Dove Patch	Left-handed writer	Silver hair	Stained glass glare
Matthias Gray	Brass Lantern	Olive Branch Pin	Left-handed writer	Blonde hair	Stained glass glare
Silas Thorne	Wooden Staff	Fish Emblem	Left-handed writer	Blonde hair	Organ music rumble
Chloe Palmer	Clay Pitcher	Fish Emblem	Right-handed writer	Brown hair	Church bell chime
Brother Peter	Wooden Staff	Crown Stamp	Right-handed writer	Silver hair	Organ music rumble
Pastor Luke	Wooden Staff	Crown Stamp	Right-handed writer	Blonde hair	Organ music rumble
Apostle Andrew	Brass Lantern	Anchor Crest	Left-handed writer	Silver hair	Organ music rumble
Micah Finch	Silver Bell	Fish Emblem	Left-handed writer	Silver hair	Church bell chime
Boaz Sterling	Wooden Staff	Fish Emblem	Left-handed writer	Silver hair	Organ music rumble
Sister Mary	Wooden Staff	Crown Stamp	Left-handed writer	Brown hair	Stained glass glare
Priscilla Vance	Brass Lantern	Crown Stamp	Right-handed writer	Blonde hair	Church bell chime
Joanna Hays	Brass Lantern	Olive Branch Pin	Left-handed writer	Silver hair	Organ music rumble
Tabitha Reed	Silver Bell	Fish Emblem	Right-handed writer	Silver hair	Organ music rumble
Selah Marsh	Brass Lantern	Fish Emblem	Right-handed writer	Brown hair	Organ music rumble
Gideon Vance	Olive Oil Flask	Dove Patch	Left-handed writer	Brown hair	Organ music rumble
Lydia Bennett	Clay Pitcher	Olive Branch Pin	Left-handed writer	Silver hair	Organ music rumble
Esther Croft	Wooden Staff	Olive Branch Pin	Left-handed writer	Silver hair	Organ music rumble
Deacon John	Olive Oil Flask	Fish Emblem	Right-handed writer	Brown hair	Church bell chime
Titus Stone	Clay Pitcher	Anchor Crest	Left-handed writer	Silver hair	Organ music rumble

CLUE 1 Place value

The archivist inspects the vault digit scanner to read the security door code.

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

T																T
100	30	8000	40	70	90	90	50	70	600	7000	5000	8000	80	600	5000	100
6000	8000	50	1000	50	600	5000	90	70	40	8000	900	1000	50	600	200	30
2000	70	600														

What is the value of the 1 in 178? → **T**

What is the value of the 2 in 218? → **C**

What is the value of the 7 in 573? → **I**

What is the value of the 5 in 457? → **A**

What is the value of the 3 in 537? → **H**

What is the value of the 8 in 9,585? → **S**

What is the value of the 7 in 7,604? → **D**

What is the value of the 6 in 6,353? → **W**

What is the value of the 8 in 8,094? → **E**

What is the value of the 9 in 290? → **L**

What is the value of the 9 in 3,968? → **B**

What is the value of the 5 in 15,837? → **O**

What is the value of the 6 in 670? → **N**

What is the value of the 2 in 2,746? → **P**

What is the value of the 1 in 31,236? → **R**

What is the value of the 4 in 5,848? → **V**

Scratch space:

CLUE 2 Addition

The museum helper gathers up all the fallen candle stands and counts the total.

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

T									T				T				T			
626	250	754	303	856	303	954	754	869	626	785	542	268	626	754	481	268	626	754	303	

		T		T								T				
785	471	626	250	626	250	754	471	542	426	754	648	626	250	549	481	269

$318 + 308 = \square \rightarrow \text{[T]}$

$451 + 418 = \square \rightarrow \text{[C]}$

$120 + 148 = \square \rightarrow \text{[O]}$

$329 + 527 = \square \rightarrow \text{[U]}$

$218 + 208 = \square \rightarrow \text{[L]}$

$402 + 246 = \square \rightarrow \text{[F]}$

$230 + 251 = \square \rightarrow \text{[N]}$

$169 + 302 = \square \rightarrow \text{[I]}$

$92 + 158 = \square \rightarrow \text{[H]}$

$402 + 352 = \square \rightarrow \text{[E]}$

$362 + 187 = \square \rightarrow \text{[A]}$

$202 + 101 = \square \rightarrow \text{[S]}$

$213 + 329 = \square \rightarrow \text{[R]}$

$291 + 663 = \square \rightarrow \text{[P]}$

$501 + 284 = \square \rightarrow \text{[W]}$

$98 + 171 = \square \rightarrow \text{[D]}$

Scratch space:

Subtraction

The detective compares the leftover oil jars to see how many went missing.

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

337 707 896 876 556 860 860 450 556 797 264 450 826 618 177 896 450 204 896 143 706 431 337 510 662 706 177 659 450 797 764 431 826 556 866

$397 - 60 = \boxed{} \rightarrow \boxed{\text{T}}$

459 - 9 = → **A**

$477 - 46 = \boxed{} \rightarrow \boxed{\text{U}}$

$786 - 79 = \boxed{} \rightarrow \boxed{\text{H}}$

$194 - 17 = \boxed{} \rightarrow \boxed{\text{R}}$

$450 - 186 = \boxed{} \rightarrow \boxed{\text{W}}$

$$1049 - 343 = \boxed{} \rightarrow \boxed{0}$$

$$961 - 85 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$$1016 - 150 = \boxed{} \rightarrow \boxed{\text{C}}$$

$278 - 135 = \square \rightarrow \mathbf{D}$

$816 - 198 = \boxed{} \rightarrow \boxed{\text{F}}$

$882 - 223 = \boxed{} \rightarrow \boxed{\text{G}}$

$861 - 199 = \boxed{} \rightarrow \boxed{\text{Y}}$

$822 - 312 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$1184 - 358 = \boxed{} \rightarrow \boxed{\text{S}}$

$$1053 - 193 = \boxed{} \rightarrow \boxed{\text{L}}$$

$881 - 117 = \boxed{} \rightarrow \boxed{\text{M}}$

$854 - 57 = \boxed{} \rightarrow \boxed{\text{N}}$

$1039 - 143 = \boxed{} \rightarrow \boxed{\text{E}}$

$291 - 87 = \boxed{} \rightarrow \boxed{\text{K}}$

$$825 - 269 = \boxed{} \rightarrow \boxed{1}$$

Scratch space:

CLUE 4 Rounding

The courtyard display screen shows the approximate visitor count rounded to the nearest ten.

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

A								A				A						
60	50	7000	90	3000	700	2000	6000	60	7000	2000	9000	60	50	600	40	30	500	80

		A								A			A					
500	700	60	2000	900	6000	700	80	7000	50	4000	90	60	800	8000	60	50	700	

Round 59 to the nearest ten → **A**

Round 455 to the nearest hundred → **N**

Round 9,014 to the nearest thousand → **W**

Round 836 to the nearest hundred → **Y**

Round 2,116 to the nearest thousand → **R**

Round 50 to the nearest ten → **S**

Round 4,456 to the nearest thousand → **P**

Round 5,656 to the nearest thousand → **H**

Round 26 to the nearest ten → **U**

Round 40 to the nearest ten → **O**

Round 2,846 to the nearest thousand → **V**

Round 6,766 to the nearest thousand → **I**

Round 8,081 to the nearest thousand → **C**

Round 726 to the nearest hundred → **E**

Round 889 to the nearest hundred → **T**

Round 94 to the nearest ten → **L**

Round 84 to the nearest ten → **D**

Round 643 to the nearest hundred → **F**

Scratch space:

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

The choir director divides the songbooks equally into stacks for the singers.

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:

$35 \div 5 = \boxed{}$

$121 \div 11 = \boxed{}$

$10 \div 10 = \boxed{}$

$48 \div 6 = \boxed{}$

$12 \div 3 = \boxed{}$

$36 \div 6 = \boxed{}$

$35 \div 7 = \boxed{}$

$20 \div 2 = \boxed{}$

$36 \div 4 = \boxed{}$

$12 \div 1 = \boxed{}$

$18 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain carried a clay pitcher to collect the stray keys, then showed an anchor crest to slip past the gates.
2. The villain carried a clay pitcher to collect the stray keys, then flashed a dove patch to enter the side hall.
3. The villain poured an olive oil flask to loosen the hinge, then showed an anchor crest to slip past the gates.
4. The villain rang a silver bell to confuse the security guard, then wore a fish emblem while crossing the courtyard.
5. The villain rang a silver bell to confuse the security guard, then showed an anchor crest to slip past the gates.
6. The villain used a wooden staff to hook the glass cover, then flashed a dove patch to enter the side hall.
7. The villain used a wooden staff to hook the glass cover, then wore a fish emblem while crossing the courtyard.
8. The villain poured an olive oil flask to loosen the hinge, then flashed a dove patch to enter the side hall.
9. The villain poured an olive oil flask to loosen the hinge, then stamped a crown stamp onto the visitor register.
10. The villain used a wooden staff to hook the glass cover, then stamped a crown stamp onto the visitor register.
11. The villain used a brass lantern to shine light on the lock, then showed an anchor crest to slip past the gates.
12. The villain rang a silver bell to confuse the security guard, then stamped a crown stamp onto the visitor register.

Answer Key

The Case of the Missing Golden Scroll

Culprit: Miriam Cross

Clay Pitcher · Dove Patch · Left-handed writer · Silver hair · Organ music rumble

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT WEAR AN OLIVE BRANCH PIN"

What is the value of the 1 in 178? = 100 (T) · What is the value of the 2 in 218? = 200 (C) · What is the value of the 7 in 573? = 70 (I) · What is the value of the 5 in 457? = 50 (A) · What is the value of the 3 in 537? = 30 (H) · What is the value of the 8 in 9,585? = 80 (S) · What is the value of the 7 in 7,604? = 7000 (D) · What is the value of the 6 in 6,353? = 6000 (W) · What is the value of the 8 in 8,094? = 8000 (E) · What is the value of the 9 in 290? = 90 (L) · What is the value of the 9 in 3,968? = 900 (B) · What is the value of the 5 in 15,837? = 5000 (O) · What is the value of the 6 in 670? = 600 (N) · What is the value of the 2 in 2,746? = 2000 (P) · What is the value of the 1 in 31,236? = 1000 (R) · What is the value of the 4 in 5,848? = 40 (V)

Clue 2 (Addition): "THE SUSPECT WROTE NOTES WITH THEIR LEFT HAND"

318 + 308 = 626 (T) · 451 + 418 = 869 (C) · 120 + 148 = 268 (O) · 329 + 527 = 856 (U) · 218 + 208 = 426 (L) · 402 + 246 = 648 (F) · 230 + 251 = 481 (N) · 169 + 302 = 471 (I) · 92 + 158 = 250 (H) · 402 + 352 = 754 (E) · 362 + 187 = 549 (A) · 202 + 101 = 303 (S) · 213 + 329 = 542 (R) · 291 + 663 = 954 (P) · 501 + 284 = 785 (W) · 98 + 171 = 269 (D)

Clue 3 (Subtraction): "THE VILLAIN WAS FREAKED OUT BY ORGAN MUSIC"

397 - 60 = 337 (T) · 459 - 9 = 450 (A) · 477 - 46 = 431 (U) · 786 - 79 = 707 (H) · 194 - 17 = 177 (R) · 450 - 186 = 264 (W) · 1049 - 343 = 706 (O) · 961 - 85 = 876 (V) · 1016 - 150 = 866 (C) · 278 - 135 = 143 (D) · 816 - 198 = 618 (F) · 882 - 223 = 659 (G) · 861 - 199 = 662 (Y) · 822 - 312 = 510 (B) · 1184 - 358 = 826 (S) · 1053 - 193 = 860 (L) · 881 - 117 = 764 (M) · 854 - 57 = 797 (N) · 1039 - 143 = 896 (E) · 291 - 87 = 204 (K) · 825 - 269 = 556 (I)

Clue 4 (Rounding): "A SILVER HAIR WAS FOUND NEAR THE DISPLAY CASE"

Round 59 to the nearest ten = 60 (A) · Round 455 to the nearest hundred = 500 (N) · Round 9,014 to the nearest thousand = 9000 (W) · Round 836 to the nearest hundred = 800 (Y) · Round 2,116 to the nearest thousand = 2000 (R) · Round 50 to the nearest ten = 50 (S) · Round 4,456 to the nearest thousand = 4000 (P) · Round 5,656 to the nearest thousand = 6000 (H) · Round 26 to the nearest ten = 30 (U) · Round 40 to the nearest ten = 40 (O) · Round 2,846 to the nearest thousand = 3000 (V) · Round 6,766 to the nearest thousand = 7000 (I) · Round 8,081 to the nearest thousand = 8000 (C) · Round 726 to the nearest hundred = 700 (E) · Round 889 to the nearest hundred = 900 (T) · Round 94 to the nearest ten = 90 (L) · Round 84 to the nearest ten = 80 (D) · Round 643 to the nearest hundred = 600 (F)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Miriam Cross

35 ÷ 5 = 7 · 121 ÷ 11 = 11 · 10 ÷ 10 = 1 · 48 ÷ 6 = 8 · 12 ÷ 3 = 4 · 36 ÷ 6 = 6 · 35 ÷ 7 = 5 · 20 ÷ 2 = 10 · 36 ÷ 4 = 9 · 12 ÷ 1 = 12 · 18 ÷ 6 = 3