



The Mystery of the Governor's Pocket Watch

Grade 6 math · Place value, Addition, Subtraction, Percentages, Division · Reading level grades 5-6

Detective: _____ Date: _____

The Governor's golden pocket watch has been swiped from his cabin! A sneaky pirate slipped through the porthole, grabbed the treasure, and fled into the misty cove. It is up to you to decode the clues, track down the culprit among the crew, and save the Governor's prized timepiece.

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 pirate is _____

Possible suspects

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

NAME	SIGNATURE WEAPON	POCKET LOOT	SABER HOLSTER	BANDANA COLOR	SUPERSTITION
Jean Lafitte	flintlock pistol	lucky doubloon	right-side holster	crimson bandana	scared of parrots
Jacquotte Delahaye	heavy boarding axe	silver coin	right-side holster	crimson bandana	hates cold water
Charlotte de Berry	rusty cutlass	gold compass	left-side holster	crimson bandana	scared of parrots
Blackbeard Edward	flintlock pistol	gold compass	right-side holster	striped bandana	gets seasick easily
Howell Davis	rusty cutlass	lucky doubloon	right-side holster	striped bandana	scared of parrots
Henry Avery	flintlock pistol	gold compass	left-side holster	midnight black bandana	gets seasick easily
Bartholomew Roberts	flintlock pistol	lucky doubloon	left-side holster	crimson bandana	scared of parrots
Edward Low	iron hook	spyglass lens	left-side holster	striped bandana	gets seasick easily
William Kidd	brass spyglass	gold compass	left-side holster	striped bandana	gets seasick easily
Anne Bonny	heavy boarding axe	treasure map	right-side holster	crimson bandana	hates cold water
Charles Vane	brass spyglass	gold compass	left-side holster	striped bandana	scared of parrots
Sadie the Goat	rusty cutlass	spyglass lens	right-side holster	crimson bandana	scared of parrots
Grace O Malley	rusty cutlass	spyglass lens	left-side holster	midnight black bandana	gets seasick easily
Emanuel Wynne	flintlock pistol	spyglass lens	right-side holster	crimson bandana	scared of parrots
Christopher Condent	iron hook	silver coin	right-side holster	striped bandana	scared of parrots
Francois l Olonnais	heavy boarding axe	silver coin	left-side holster	crimson bandana	scared of parrots
Henry Morgan	brass spyglass	gold compass	left-side holster	midnight black bandana	scared of parrots
Thomas Tew	iron hook	silver coin	right-side holster	crimson bandana	scared of parrots
Mary Read	flintlock pistol	gold compass	right-side holster	crimson bandana	scared of parrots
Samuel Bellamy	iron hook	lucky doubloon	left-side holster	midnight black bandana	gets seasick easily
Woodes Rogers	brass spyglass	lucky doubloon	left-side holster	midnight black bandana	hates cold water

CLUE 1 Place value

The Quartermaster found a strange, coded parchment in the captain's desk. The numbers on the parchment are written in base-ten columns, where each digit's place represents a secret island coordinate.

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

T																	
70	20	400	10	8000	200	900	400	9000	10	400	5000	400	20	100	9000	5000	60
1000	60	3000	30	10	60	900	40	100	9000	9000							

What is the value of the 7 in 38,978? → **T**

What is the value of the 1 in 81,939? → **G**

What is the value of the 3 in 148,130? → **D**

What is the value of the 9 in 569,065? → **S**

What is the value of the 3 in 23,296? → **L**

What is the value of the 1 in 705,152? → **A**

What is the value of the 4 in 917,840? → **P**

What is the value of the 2 in 84,241? → **I**

What is the value of the 2 in 11,827? → **H**

What is the value of the 9 in 75,965? → **M**

What is the value of the 6 in 37,163? → **O**

What is the value of the 4 in 57,482? → **E**

What is the value of the 8 in 48,994? → **R**

What is the value of the 1 in 57,919? → **C**

What is the value of the 5 in 685,738? → **N**

Scratch space:

CLUE 2

To unlock the Governor's iron safe, we must combine the total counts of silver rings, iron keys, and bronze goblets found scattered near the docks.

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

Diagram showing the arrangement of 20 numbered boxes in two rows. The top row has 16 boxes, and the bottom row has 12 boxes. The boxes are numbered 9021, 3506, 6766, 6312, 2640, 5326, 3506, 9021, 6228, 2640, 8817, 6766, 3506, 2816, 3413, 6228, 9021, 6766, 6312 in the top row, and 6228, 6285, 6312, 9376, 5399, 6766, 8817, 9021, 3506, 6766, 5691, 9376, 3413, 3413 in the bottom row. The boxes with the number 9021 are highlighted in orange and labeled with a 'T'.

$$5320 + 3701 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$2607 + 3621 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$2883 + 2808 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$2658 + 2668 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$2467 + 4299 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$5162 + 3655 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$1400 + 1240 = \boxed{} \rightarrow \boxed{\text{I}}$$

$1356 + 2150 = \boxed{} \rightarrow \boxed{\text{H}}$

$$2947 + 3338 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$916 + 1900 = \boxed{} \rightarrow \boxed{0}$$

$$3710 + 2602 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$1712 + 1701 = \boxed{} \rightarrow \boxed{\text{L}}$$

$3394 + 5982 = \square \rightarrow \boxed{\text{A}}$

$$2466 + 2933 = \boxed{} \rightarrow \boxed{\text{P}}$$

Scratch space:

CLUE 3

Subtraction

We have a heavy sack of copper coins, but the thief seems to have dropped some while fleeing. Let us subtract the weight of the remaining coins from the original weight to find out what is missing.

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

T																			
8733	6027	4735	1227	7431	1227	8633	4735	1753	8733	1227	6027	3254	8325	4735	7185	4735	5559		
				T															
4707	6027	4735	8967	8733	6027	4735	8633	8805	7185	7185	2770	8733	1753	6027	3254	7185	8633	4735	5559

$13281 - 4548 = \square \rightarrow \boxed{\text{T}}$

$8648 - 1463 = \square \rightarrow \boxed{\text{R}}$

$6409 - 4656 = \square \rightarrow \boxed{\text{C}}$

$10312 - 1679 = \square \rightarrow \boxed{\text{P}}$

$8433 - 3726 = \square \rightarrow \boxed{\text{W}}$

$9232 - 1801 = \square \rightarrow \boxed{\text{U}}$

$8545 - 3810 = \square \rightarrow \boxed{\text{E}}$

$6796 - 1237 = \square \rightarrow \boxed{\text{D}}$

$8599 - 274 = \square \rightarrow \boxed{\text{V}}$

$9992 - 3965 = \square \rightarrow \boxed{\text{H}}$

$9285 - 480 = \square \rightarrow \boxed{\text{A}}$

$5097 - 3870 = \square \rightarrow \boxed{\text{S}}$

$3635 - 381 = \square \rightarrow \boxed{\text{I}}$

$4778 - 2008 = \square \rightarrow \boxed{\text{O}}$

$11032 - 2065 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 4 Percentages

The pirate crew demands a specific percentage of the total treasure haul before they will share any rumors they heard about the thief on deck.

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

A				A														
24	33	39	15	24	1	43	20	13	25	15	16	44	33	20	1			
				A			A											
39	3	15	36	24	43	5	24	33	4	36	13	39	17	36	3	16	1	43

50% of 48 = → A	5% of 100 = → W	10% of 430 = → D
10% of 160 = → I	75% of 20 = → R	25% of 80 = → O
5% of 80 = → L	60% of 55 = → S	5% of 260 = → F
5% of 780 = → T	50% of 2 = → N	10% of 440 = → M
10% of 30 = → H	10% of 170 = → B	50% of 72 = → E
20% of 125 = → C		

Scratch space:

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

We must divide our deckhands into equal search parties to scour the muddy shoreline, making sure every pirate gets an equal share of the map grid to investigate.

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:

$25 \div 5 = \boxed{}$

$27 \div 3 = \boxed{}$

$24 \div 2 = \boxed{}$

$44 \div 4 = \boxed{}$

$12 \div 12 = \boxed{}$

$60 \div 10 = \boxed{}$

$49 \div 7 = \boxed{}$

$27 \div 9 = \boxed{}$

$40 \div 5 = \boxed{}$

$44 \div 11 = \boxed{}$

$24 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sneaked past the sleeping guard, then stashed the timepiece under a barrel.
2. The villain slithered through the cargo hold, then dropped the loot into a treasure chest.
3. The villain scrambled up the rigging, then dropped the loot into a treasure chest.
4. The villain slithered through the cargo hold, then slipped the golden watch into a pouch.
5. The villain crept onto the quarterdeck, then tucked the prize beneath a hammock.
6. The villain scrambled up the rigging, then stashed the timepiece under a barrel.
7. The villain swung through the cabin window, then stashed the timepiece under a barrel.
8. The villain crept onto the quarterdeck, then hid the pocket watch inside a boot.
9. The villain swung through the cabin window, then dropped the loot into a treasure chest.
10. The villain sneaked past the sleeping guard, then slipped the golden watch into a pouch.
11. The villain swung through the cabin window, then slipped the golden watch into a pouch.
12. The villain swung through the cabin window, then tucked the prize beneath a hammock.

Answer Key

The Mystery of the Governor's Pocket Watch

Culprit: Thomas Tew

iron hook · silver coin · right-side holster · crimson bandana · scared of parrots

Trail: Start 21 → Clue 1 14 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE CRIME SCENE HAS NO GOLD COMPASS"

What is the value of the 7 in 38,978? = 70 (T) · What is the value of the 1 in 81,939? = 1000 (G) · What is the value of the 3 in 148,130? = 30 (D) · What is the value of the 9 in 569,065? = 9000 (S) · What is the value of the 3 in 23,296? = 3000 (L) · What is the value of the 1 in 705,152? = 100 (A) · What is the value of the 4 in 917,840? = 40 (P) · What is the value of the 2 in 84,241? = 200 (I) · What is the value of the 2 in 11,827? = 20 (H) · What is the value of the 9 in 75,965? = 900 (M) · What is the value of the 6 in 37,163? = 60 (O) · What is the value of the 4 in 57,482? = 400 (E) · What is the value of the 8 in 48,994? = 8000 (R) · What is the value of the 1 in 57,919? = 10 (C) · What is the value of the 5 in 685,738? = 5000 (N)

Clue 2 (Addition): "THE RIGHT SIDE HOLSTER SCRAPED THE WALL"

$5320 + 3701 = 9021$ (T) · $2607 + 3621 = 6228$ (S) · $2883 + 2808 = 5691$ (W) · $2658 + 2668 = 5326$ (G) · $2467 + 4299 = 6766$ (E) · $5162 + 3655 = 8817$ (D) · $1400 + 1240 = 2640$ (I) · $1356 + 2150 = 3506$ (H) · $2947 + 3338 = 6285$ (C) · $916 + 1900 = 2816$ (O) · $3710 + 2602 = 6312$ (R) · $1712 + 1701 = 3413$ (L) · $3394 + 5982 = 9376$ (A) · $2466 + 2933 = 5399$ (P)

Clue 3 (Subtraction): "THE SUSPECT SHIVERED WHEN THE PARROT CHIRPED"

$13281 - 4548 = 8733$ (T) · $8648 - 1463 = 7185$ (R) · $6409 - 4656 = 1753$ (C) · $10312 - 1679 = 8633$ (P) · $8433 - 3726 = 4707$ (W) · $9232 - 1801 = 7431$ (U) · $8545 - 3810 = 4735$ (E) · $6796 - 1237 = 5559$ (D) · $8599 - 274 = 8325$ (V) · $9992 - 3965 = 6027$ (H) · $9285 - 480 = 8805$ (A) · $5097 - 3870 = 1227$ (S) · $3635 - 381 = 3254$ (I) · $4778 - 2008 = 2770$ (O) · $11032 - 2065 = 8967$ (N)

Clue 4 (Percentages): "A STRAND OF CRIMSON THREAD WAS LEFT BEHIND"

50% of 48 = 24 (A) · 5% of 100 = 5 (W) · 10% of 430 = 43 (D) · 10% of 160 = 16 (I) · 75% of 20 = 15 (R) · 25% of 80 = 20 (O) · 5% of 80 = 4 (L) · 60% of 55 = 33 (S) · 5% of 260 = 13 (F) · 5% of 780 = 39 (T) · 50% of 2 = 1 (N) · 10% of 440 = 44 (M) · 10% of 30 = 3 (H) · 10% of 170 = 17 (B) · 50% of 72 = 36 (E) · 20% of 125 = 25 (C)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Thomas Tew

$25 \div 5 = 5$ · $27 \div 3 = 9$ · $24 \div 2 = 12$ · $44 \div 4 = 11$ · $12 \div 12 = 1$ · $60 \div 10 = 6$ · $49 \div 7 = 7$ · $27 \div 9 = 3$ · $40 \div 5 = 8$ · $44 \div 11 = 4$ · $24 \div 12 = 2$