



The Mystery of the Missing Treasure Map

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

Detective: _____ Date: _____

Someone snuck into the galley of The Golden Cutlass and swiped the legendary treasure map! The cook saw a mysterious pirate flee into the night. Examine the clues to catch the culprit before they sail away!

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 pirate captain is _____

Possible suspects

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

NAME	BOARDING WEAPON	PIRATE PET	DOMINANT HAND	LOOK	SECRET WEAKNESS
William Fly	Cutlass Sword	Talking Crow	Left Handed	Bald Head	Fresh Lemons
Bartholomeu	Hook Hand	Sea Monkey	Right Handed	Black Beard	Fresh Lemons
Jean Lafitte	Boarding Axe	Black Cat	Left Handed	Red Hair	Loud Whistle
Blackbeard	Cutlass Sword	Black Cat	Left Handed	Bald Head	Bright Flashlight
Saddled Sam	Flintlock Pistol	Guard Dog	Right Handed	Bald Head	Bright Flashlight
Salty Rogers	Boarding Axe	Talking Crow	Right Handed	Red Hair	Loud Whistle
Howell Davis	Boarding Axe	Talking Crow	Right Handed	Black Beard	Bright Flashlight
Charles Vane	Cannon Ball	Green Parrot	Left Handed	Bald Head	Loud Whistle
Stede Bonnet	Cannon Ball	Black Cat	Left Handed	Bald Head	Bright Flashlight
Grace OMalley	Flintlock Pistol	Green Parrot	Right Handed	Bald Head	Bright Flashlight
Woodes Rogers	Cannon Ball	Talking Crow	Left Handed	Black Beard	Bright Flashlight
Barnaby Plunk	Cannon Ball	Talking Crow	Left Handed	Red Hair	Fresh Lemons
Thomas Tew	Boarding Axe	Guard Dog	Left Handed	Black Beard	Loud Whistle
John Rackham	Cutlass Sword	Black Cat	Right Handed	Bald Head	Bright Flashlight
Anne Bonny	Flintlock Pistol	Guard Dog	Left Handed	Black Beard	Loud Whistle
Edward England	Hook Hand	Sea Monkey	Right Handed	Bald Head	Fresh Lemons
Calico Jack	Cannon Ball	Guard Dog	Right Handed	Black Beard	Fresh Lemons
Samuel Bellamy	Cutlass Sword	Black Cat	Right Handed	Red Hair	Fresh Lemons
Pegleg Pete	Cutlass Sword	Sea Monkey	Right Handed	Bald Head	Bright Flashlight
Ching Shih	Cutlass Sword	Green Parrot	Right Handed	Bald Head	Bright Flashlight
Mary Read	Cannon Ball	Green Parrot	Left Handed	Black Beard	Bright Flashlight

CLUE 1 Place value

You search the captains desk and find a locked chest with a gold badge number showing place values.

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

T						T											T
300	90	8000	9000	1000	80	300	1000	900	40	600	800	8000	20	40	800	300	

90	1000	10	8000	1000	70	3000	1000	4000	600	600	800	70

What is the value of the 3 in 7,369? → **T**

What is the value of the 8 in 983? → **P**

What is the value of the 1 in 61,335? → **A**

What is the value of the 7 in 2,574? → **G**

What is the value of the 8 in 38,641? → **E**

What is the value of the 6 in 1,613? → **D**

What is the value of the 9 in 9,437? → **C**

What is the value of the 8 in 4,866? → **O**

What is the value of the 2 in 820? → **S**

What is the value of the 4 in 649? → **N**

What is the value of the 4 in 4,952? → **R**

What is the value of the 9 in 7,911? → **I**

What is the value of the 3 in 3,591? → **U**

What is the value of the 1 in 8,010? → **V**

What is the value of the 9 in 7,295? → **H**

Scratch space:

CLUE 2

The quartermaster counts up all the extra iron nails found near the crime scene to reveal the next clue.

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

$$1362 + 2568 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$3049 + 2266 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$2269 + 2132 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$4021 + 1736 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$4187 + 3965 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2408 + 4756 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$3720 + 1681 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$2922 + 5167 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$2660 + 4527 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$4519 + 3664 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$3105 + 2991 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$3861 + 3612 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$1275 + 1072 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$2514 + 4528 = \boxed{} \rightarrow \boxed{\text{D}}$$

Scratch space:

CLUE 3

Subtraction

You subtract the damaged wooden planks on deck from the total to clear away the false tracks.

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

T

6259 2277 3608 3413 7806 5864 5864 1013 7806 3506 2510 5864 3608 5739 2510 7538 3362 5970 1013

T
 T

7948 7538 7806 3426 2277 6259 2510 5864 1013 3198 2277 5864 7806 3426 2277 6259

$7967 - 1708 = \boxed{} \rightarrow \boxed{T}$

$5075 - 1569 = \boxed{} \rightarrow \boxed{N}$

$5389 - 1976 = \boxed{} \rightarrow \boxed{V}$

$6909 - 3483 = \boxed{} \rightarrow \boxed{G}$

$6354 - 2992 = \boxed{} \rightarrow \boxed{O}$

$1076 - 63 = \boxed{} \rightarrow \boxed{A}$

$7553 - 4355 = \boxed{} \rightarrow \boxed{S}$

$8895 - 947 = \boxed{} \rightarrow \boxed{B}$

$3347 - 1070 = \boxed{} \rightarrow \boxed{H}$

$10532 - 2726 = \boxed{} \rightarrow \boxed{I}$

$7797 - 1933 = \boxed{} \rightarrow \boxed{L}$

$8224 - 2254 = \boxed{} \rightarrow \boxed{M}$

$8871 - 3132 = \boxed{} \rightarrow \boxed{D}$

$4888 - 2378 = \boxed{} \rightarrow \boxed{F}$

$10553 - 3015 = \boxed{} \rightarrow \boxed{R}$

$7693 - 4085 = \boxed{} \rightarrow \boxed{E}$

Scratch space:

CLUE 4

Rounding

The ship spyglass display rounds the distance to the nearest league revealing a secret code.

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

A		A					A										
1300	170	1300	230	500	1100	700	1300	500	1700	700	110	230	700	4300	900	700	500
										A							
230	200	70	1100	900	200	50	900	1100	700	500	1300	1700	3000				

Round 1,293 to the nearest hundred

→ **A**

Round 4,331 to the nearest hundred

→ **C**

Round 73 to the nearest ten

→ **G**

Round 734 to the nearest hundred

→ **E**

Round 3,176 to the nearest thousand

→ **K**

Round 1,741 to the nearest hundred

→ **R**

Round 228 to the nearest ten

→ **L**

Round 179 to the nearest hundred

→ **I**

Round 911 to the nearest hundred

→ **T**

Round 109 to the nearest ten

→ **F**

Round 461 to the nearest hundred

→ **D**

Round 1,073 to the nearest hundred

→ **H**

Round 171 to the nearest ten

→ **B**

Round 50 to the nearest ten

→ **N**

Scratch space:

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

You divide the stolen gold coins evenly into pirate sacks exposing the final scrap of evidence.

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:

$16 \div 4 = \boxed{}$

$40 \div 5 = \boxed{}$

$28 \div 4 = \boxed{}$

$3 \div 1 = \boxed{}$

$30 \div 3 = \boxed{}$

$63 \div 7 = \boxed{}$

$50 \div 10 = \boxed{}$

$72 \div 6 = \boxed{}$

$22 \div 11 = \boxed{}$

$6 \div 1 = \boxed{}$

$99 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swings a cutlass sword, then commands a sea monkey.
2. The villain chops with a boarding axe, then commands a sea monkey.
3. The villain rolls a heavy cannon ball, then whistles to a guard dog.
4. The villain swings a cutlass sword, then releases a black cat.
5. The villain swipes a sharp hook hand, then releases a black cat.
6. The villain chops with a boarding axe, then signals a green parrot.
7. The villain swings a cutlass sword, then signals a green parrot.
8. The villain fires a flintlock pistol, then signals a green parrot.
9. The villain chops with a boarding axe, then whistles to a guard dog.
10. The villain rolls a heavy cannon ball, then sends out a talking crow.
11. The villain swipes a sharp hook hand, then commands a sea monkey.
12. The villain fires a flintlock pistol, then whistles to a guard dog.

Answer Key

The Mystery of the Missing Treasure Map

Culprit: Pegleg Pete

Cutlass Sword · Sea Monkey · Right Handed · Bald Head · Bright Flashlight

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE CAPTAIN DOES NOT HAVE A GUARD DOG"

What is the value of the 3 in 7,369? = 300 (T) · What is the value of the 8 in 983? = 80 (P) · What is the value of the 1 in 61,335? = 1000 (A) · What is the value of the 7 in 2,574? = 70 (G) · What is the value of the 8 in 38,641? = 8000 (E) · What is the value of the 6 in 1,613? = 600 (D) · What is the value of the 9 in 9,437? = 9000 (C) · What is the value of the 8 in 4,866? = 800 (O) · What is the value of the 2 in 820? = 20 (S) · What is the value of the 4 in 649? = 40 (N) · What is the value of the 4 in 4,952? = 4000 (R) · What is the value of the 9 in 7,911? = 900 (I) · What is the value of the 3 in 3,591? = 3000 (U) · What is the value of the 1 in 8,010? = 10 (V) · What is the value of the 9 in 7,295? = 90 (H)

Clue 2 (Addition): "THE SNEAKY PIRATE USED THE RIGHT HAND"

$1362 + 2568 = 3930$ (T) · $3049 + 2266 = 5315$ (K) · $2269 + 2132 = 4401$ (A) · $4021 + 1736 = 5757$ (I) · $4187 + 3965 = 8152$ (H) · $2408 + 4756 = 7164$ (S) · $3720 + 1681 = 5401$ (N) · $2922 + 5167 = 8089$ (R) · $2660 + 4527 = 7187$ (E) · $4519 + 3664 = 8183$ (P) · $3105 + 2991 = 6096$ (U) · $3861 + 3612 = 7473$ (G) · $1275 + 1072 = 2347$ (Y) · $2514 + 4528 = 7042$ (D)

Clue 3 (Subtraction): "THE VILLAIN FLED FROM A BRIGHT FLASHLIGHT"

$7967 - 1708 = 6259$ (T) · $5075 - 1569 = 3506$ (N) · $5389 - 1976 = 3413$ (V) · $6909 - 3483 = 3426$ (G) · $6354 - 2992 = 3362$ (O) · $1076 - 63 = 1013$ (A) · $7553 - 4355 = 3198$ (S) · $8895 - 947 = 7948$ (B) · $3347 - 1070 = 2277$ (H) · $10532 - 2726 = 7806$ (I) · $7797 - 1933 = 5864$ (L) · $8224 - 2254 = 5970$ (M) · $8871 - 3132 = 5739$ (D) · $4888 - 2378 = 2510$ (F) · $10553 - 3015 = 7538$ (R) · $7693 - 4085 = 3608$ (E)

Clue 4 (Rounding): "A BALD HEAD REFLECTED LIGHT IN THE DARK"

Round 1,293 to the nearest hundred = 1300 (A) · Round 4,331 to the nearest hundred = 4300 (C) · Round 73 to the nearest ten = 70 (G) · Round 734 to the nearest hundred = 700 (E) · Round 3,176 to the nearest thousand = 3000 (K) · Round 1,741 to the nearest hundred = 1700 (R) · Round 228 to the nearest ten = 230 (L) · Round 179 to the nearest hundred = 200 (I) · Round 911 to the nearest hundred = 900 (T) · Round 109 to the nearest ten = 110 (F) · Round 461 to the nearest hundred = 500 (D) · Round 1,073 to the nearest hundred = 1100 (H) · Round 171 to the nearest ten = 170 (B) · Round 50 to the nearest ten = 50 (N)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Pegleg Pete

$16 \div 4 = 4$ · $40 \div 5 = 8$ · $28 \div 4 = 7$ · $3 \div 1 = 3$ · $30 \div 3 = 10$ · $63 \div 7 = 9$ · $50 \div 10 = 5$ · $72 \div 6 = 12$ · $22 \div 11 = 2$ · $6 \div 1 = 6$ · $99 \div 9 = 11$