



The Mystery of the Barnacle Bay Heist

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 5-6

Detective: _____ Date: _____

Someone raided the harbor vaults and swapped the trophy catches for old boots! Examine the clues left across the docks to uncover the pirate captain responsible.

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	FISHING GEAR	SEA PET	STANCE	BEARD STYLE	BAIT ALLERGY
Stede Bonnet	Harpoon Cannon	Attack Crab	Left Handed	Bushy Beard	Salty Worms
Bartholomew Roberts	Titanium Net	Giant Octopus	Left Handed	Clean Shaven	Smelly Chum
William Kidd	Golden Fishing Rod	Trained Pelican	Right Handed	Braided Beard	Salty Worms
Barnacle Bill	Harpoon Cannon	Guard Seagull	Right Handed	Clean Shaven	Sour Lemon
Calico Jack	Harpoon Cannon	Giant Octopus	Right Handed	Clean Shaven	Smelly Chum
Jean Lafitte	Golden Fishing Rod	Guard Seagull	Right Handed	Bushy Beard	Smelly Chum
Patchy Pete	Titanium Net	Guard Seagull	Right Handed	Bushy Beard	Sour Lemon
Francois l'Olonnais	Golden Fishing Rod	Attack Crab	Left Handed	Clean Shaven	Sour Lemon
Barbarossa	Harpoon Cannon	Attack Crab	Left Handed	Braided Beard	Sour Lemon
Long John Silver	Deep Sea Sonar	Trained Pelican	Left Handed	Braided Beard	Salty Worms
Charles Vane	Harpoon Cannon	Giant Octopus	Left Handed	Clean Shaven	Sour Lemon
Zheng Yi Sao	Electric Lure	Salty Otter	Right Handed	Bushy Beard	Salty Worms
Woodes Rogers	Harpoon Cannon	Trained Pelican	Left Handed	Braided Beard	Sour Lemon
Edward England	Deep Sea Sonar	Guard Seagull	Right Handed	Braided Beard	Salty Worms
Thomas Tew	Electric Lure	Salty Otter	Right Handed	Braided Beard	Salty Worms
Mary Read	Harpoon Cannon	Trained Pelican	Right Handed	Braided Beard	Sour Lemon
Anne Bonny	Golden Fishing Rod	Attack Crab	Right Handed	Braided Beard	Salty Worms
Grace O'Malley	Electric Lure	Trained Pelican	Right Handed	Clean Shaven	Smelly Chum
Howell Davis	Golden Fishing Rod	Guard Seagull	Left Handed	Clean Shaven	Salty Worms
Blackbeard	Golden Fishing Rod	Guard Seagull	Right Handed	Bushy Beard	Salty Worms
Henry Morgan	Golden Fishing Rod	Giant Octopus	Right Handed	Braided Beard	Salty Worms

CLUE 1

Rounding

The harbor sonar screen rounds the distance to the sneaking ship to the nearest ten yards.

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

T																T
30	5000	2900	230	50	2000	2000	110	50	3000	9000	70	2900	1700	3000	70	30
								T			T	T				
5000	110	230	2900	110	1700	110	2000	30	130	70	30	30	2900	3700		

Round 31 to the nearest ten → **T**

Round 1,553 to the nearest thousand → **L**

Round 229 to the nearest ten → **V**

Round 1,679 to the nearest hundred → **S**

Round 3,414 to the nearest thousand → **N**

Round 108 to the nearest ten → **A**

Round 132 to the nearest ten → **Y**

Round 9,471 to the nearest thousand → **D**

Round 5,347 to the nearest thousand → **H**

Round 3,674 to the nearest hundred → **R**

Round 71 to the nearest ten → **O**

Round 2,861 to the nearest hundred → **E**

Round 54 to the nearest ten → **I**

Scratch space:

CLUE 2 Addition

The deckhand added up all the heavy crate weights found on the docks.

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

T 3304	3265	2836	2126	3653	2126	8744	2836	8842	T 3304	8842	6620	2126	T 3304	T 3304	3265	2836	3424	6322	
5864	3424	9077	2836	4631	3424	T 3304	3265	T 3304	3265	2836	6322	3424	6692	3265	T 3304				
3265	6620	9077	2959																

$2141 + 1163 = \square \rightarrow \text{T}$	$4296 + 2396 = \square \rightarrow \text{G}$	$1905 + 1360 = \square \rightarrow \text{H}$
$3201 + 5543 = \square \rightarrow \text{P}$	$2939 + 1692 = \square \rightarrow \text{W}$	$2467 + 3855 = \square \rightarrow \text{R}$
$4889 + 4188 = \square \rightarrow \text{N}$	$1086 + 1873 = \square \rightarrow \text{D}$	$2181 + 4439 = \square \rightarrow \text{A}$
$2054 + 3810 = \square \rightarrow \text{L}$	$1773 + 1063 = \square \rightarrow \text{E}$	$3952 + 4890 = \square \rightarrow \text{C}$
$1181 + 945 = \square \rightarrow \text{S}$	$1548 + 2105 = \square \rightarrow \text{U}$	$2082 + 1342 = \square \rightarrow \text{I}$

Scratch space:

CLUE 3

Subtraction

The navigator subtracted the missing fish weight from the logbook.

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

S									S									
2952	7028	7702	8863	3203	3029	2190	1327	6135	2952	6135	7028	8019	6605	8863	7012	6605		

							S			
2327	7028	2068	8863	7028	7583	1698	2952	7583	2327	3741

$4950 - 1998 = \square \rightarrow \boxed{\text{S}}$

$6947 - 3744 = \square \rightarrow \boxed{\text{Y}}$

$7125 - 4096 = \square \rightarrow \boxed{\text{W}}$

$4699 - 2631 = \square \rightarrow \boxed{\text{P}}$

$3792 - 2094 = \square \rightarrow \boxed{\text{N}}$

$8420 - 2285 = \square \rightarrow \boxed{\text{M}}$

$9116 - 2104 = \square \rightarrow \boxed{\text{H}}$

$5316 - 3989 = \square \rightarrow \boxed{\text{R}}$

$10978 - 3395 = \square \rightarrow \boxed{\text{I}}$

$7631 - 603 = \square \rightarrow \boxed{\text{A}}$

$12877 - 4858 = \square \rightarrow \boxed{\text{D}}$

$10978 - 2115 = \square \rightarrow \boxed{\text{T}}$

$7004 - 4677 = \square \rightarrow \boxed{\text{C}}$

$10701 - 2999 = \square \rightarrow \boxed{\text{L}}$

$5642 - 1901 = \square \rightarrow \boxed{\text{K}}$

$10974 - 4369 = \square \rightarrow \boxed{\text{E}}$

$2523 - 333 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

Multiplication facts (1-12)

The quartermaster counted equal rows of tackle boxes stacked on the pier.

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

28 14 121 64 40 27 40 28 27 121 14 40 80 121 64 14 50 121 8

54 60 56 99 40 60 99 100 80 27 40 27 96 21

$4 \times 7 = \boxed{} \rightarrow \boxed{\text{B}}$

$9 \times 3 = \boxed{} \rightarrow \boxed{\text{E}}$

$10 \times 10 = \boxed{} \rightarrow \boxed{\text{T}}$

$12 \times 8 = \boxed{} \rightarrow \boxed{\text{C}}$

$7 \times 3 = \boxed{} \rightarrow \boxed{\text{K}}$

$$12 \times 5 = \boxed{} \rightarrow \boxed{0}$$

$10 \times 5 = \boxed{} \rightarrow \boxed{\mathbf{W}}$

$$8 \times 8 = \boxed{} \rightarrow \boxed{1}$$

$5 \times 8 = \boxed{} \rightarrow \boxed{\text{D}}$

$11 \times 9 = \square \rightarrow \boxed{\mathbf{N}}$

$6 \times 9 = \boxed{} \rightarrow \boxed{\text{F}}$

$8 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$7 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{U}}$

$8 \times 10 = \boxed{} \rightarrow \boxed{\text{H}}$

$2 \times 7 = \square \rightarrow \boxed{\mathbf{R}}$

$11 \times 11 = \square \rightarrow \mathbf{A}$

Scratch space:

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

The lookout split the total silver coins equally among the dock guards.

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:

$54 \div 6 = \boxed{}$

$1 \div 1 = \boxed{}$

$18 \div 6 = \boxed{}$

$4 \div 2 = \boxed{}$

$72 \div 6 = \boxed{}$

$30 \div 6 = \boxed{}$

$10 \div 1 = \boxed{}$

$64 \div 8 = \boxed{}$

$30 \div 5 = \boxed{}$

$8 \div 2 = \boxed{}$

$21 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain reeled in the golden rod, then signaled the pelican.
2. The villain zapped with the electric lure, then whistled for the attack crab.
3. The villain scanned with deep sea sonar, then released the guard seagull.
4. The villain fired the harpoon cannon, then whistled for the salty otter.
5. The villain reeled in the golden rod, then released the guard seagull.
6. The villain zapped with the electric lure, then signaled the pelican.
7. The villain fired the harpoon cannon, then released the guard seagull.
8. The villain reeled in the golden rod, then whistled for the salty otter.
9. The villain reeled in the golden rod, then whistled for the attack crab.
10. The villain cast the titanium net, then commanded the giant octopus.
11. The villain reeled in the golden rod, then commanded the giant octopus.
12. The villain fired the harpoon cannon, then whistled for the attack crab.

Answer Key

The Mystery of the Barnacle Bay Heist

Culprit: Henry Morgan

Golden Fishing Rod · Giant Octopus · Right Handed · Braided Beard · Salty Worms

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT HAVE A SALTY OTTER"

Round 31 to the nearest ten = 30 (T) · Round 1,553 to the nearest thousand = 2000 (L) · Round 229 to the nearest ten = 230 (V) · Round 1,679 to the nearest hundred = 1700 (S) · Round 3,414 to the nearest thousand = 3000 (N) · Round 108 to the nearest ten = 110 (A) · Round 132 to the nearest ten = 130 (Y) · Round 9,471 to the nearest thousand = 9000 (D) · Round 5,347 to the nearest thousand = 5000 (H) · Round 3,674 to the nearest hundred = 3700 (R) · Round 71 to the nearest ten = 70 (O) · Round 2,861 to the nearest hundred = 2900 (E) · Round 54 to the nearest ten = 50 (I)

Clue 2 (Addition): "THE SUSPECT CAST THEIR LINE WITH THE RIGHT HAND"

$2141 + 1163 = 3304$ (T) · $4296 + 2396 = 6692$ (G) · $1905 + 1360 = 3265$ (H) · $3201 + 5543 = 8744$ (P) · $2939 + 1692 = 4631$ (W) · $2467 + 3855 = 6322$ (R) · $4889 + 4188 = 9077$ (N) · $1086 + 1873 = 2959$ (D) · $2181 + 4439 = 6620$ (A) · $2054 + 3810 = 5864$ (L) · $1773 + 1063 = 2836$ (E) · $3952 + 4890 = 8842$ (C) · $1181 + 945 = 2126$ (S) · $1548 + 2105 = 3653$ (U) · $2082 + 1342 = 3424$ (I)

Clue 3 (Subtraction): "SALTY WORMS MADE THE CAPTAIN SICK"

$4950 - 1998 = 2952$ (S) · $6947 - 3744 = 3203$ (Y) · $7125 - 4096 = 3029$ (W) · $4699 - 2631 = 2068$ (P) · $3792 - 2094 = 1698$ (N) · $8420 - 2285 = 6135$ (M) · $9116 - 2104 = 7012$ (H) · $5316 - 3989 = 1327$ (R) · $10978 - 3395 = 7583$ (I) · $7631 - 603 = 7028$ (A) · $12877 - 4858 = 8019$ (D) · $10978 - 2115 = 8863$ (T) · $7004 - 4677 = 2327$ (C) · $10701 - 2999 = 7702$ (L) · $5642 - 1901 = 3741$ (K) · $10974 - 4369 = 6605$ (E) · $2523 - 333 = 2190$ (O)

Clue 4 (Multiplication facts (1-12)): "BRAIDED BEARD HAIR WAS FOUND ON THE DECK"

$4 \times 7 = 28$ (B) · $9 \times 3 = 27$ (E) · $10 \times 10 = 100$ (T) · $12 \times 8 = 96$ (C) · $7 \times 3 = 21$ (K) · $12 \times 5 = 60$ (O) · $10 \times 5 = 50$ (W) · $8 \times 8 = 64$ (I) · $5 \times 8 = 40$ (D) · $11 \times 9 = 99$ (N) · $6 \times 9 = 54$ (F) · $8 \times 1 = 8$ (S) · $7 \times 8 = 56$ (U) · $8 \times 10 = 80$ (H) · $2 \times 7 = 14$ (R) · $11 \times 11 = 121$ (A)

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

$54 \div 6 = 9$ · $1 \div 1 = 1$ · $18 \div 6 = 3$ · $4 \div 2 = 2$ · $72 \div 6 = 12$ · $30 \div 6 = 5$ · $10 \div 1 = 10$ · $64 \div 8 = 8$ · $30 \div 5 = 6$ · $8 \div 2 = 4$ · $21 \div 3 = 7$