



The Mystery of the Harbor Haul

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 7-9

Detective: _____ **Date:** _____

A cunning fishing pirate raided the harbor vault, leaving behind cryptic clues across the docks. Clues are encoded in uppercase letters.

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 Angler Bandit is _____

Possible suspects

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

NAME	ROD TECHNIQUE	SECRET LURE	CASTING HAND	HAIR STYLE	BAIT ALLERGY
Christopher Condent	Net Throwing	Silver Spinner	Left Handed	Braided Beard	Bright Flares
Mary Read	Spearfishing	Golden Spoon	Left Handed	Braided Beard	Fresh Garlic
George Lowther	Net Throwing	Glowing Squid	Right Handed	Braided Beard	Bright Flares
Thomas Tew	Spearfishing	Chum Bucket	Left Handed	Shaggy Stubble	Bright Flares
Henry Every	Deep Sea Jigging	Feathered Fly	Left Handed	Shaggy Stubble	Bright Flares
Anne Bonny	Deep Sea Jigging	Silver Spinner	Right Handed	Slicked Hair	Loud Whistles
Calico Jack	Deep Sea Jigging	Silver Spinner	Left Handed	Shaggy Stubble	Fresh Garlic
Bartholomew Roberts	Fly Casting	Feathered Fly	Left Handed	Shaggy Stubble	Loud Whistles
Stede Bonnet	Fly Casting	Chum Bucket	Right Handed	Slicked Hair	Loud Whistles
John Rackham	Fly Casting	Chum Bucket	Left Handed	Braided Beard	Bright Flares
Ned Low	Trolling	Feathered Fly	Left Handed	Braided Beard	Bright Flares
William Kidd	Fly Casting	Glowing Squid	Left Handed	Braided Beard	Fresh Garlic
Henry Morgan	Deep Sea Jigging	Golden Spoon	Right Handed	Shaggy Stubble	Fresh Garlic
Samuel Bellamy	Net Throwing	Feathered Fly	Right Handed	Braided Beard	Fresh Garlic
Woodes Rogers	Spearfishing	Feathered Fly	Left Handed	Shaggy Stubble	Fresh Garlic
Zheng Yi Sao	Trolling	Golden Spoon	Left Handed	Braided Beard	Bright Flares
Edward England	Deep Sea Jigging	Silver Spinner	Left Handed	Shaggy Stubble	Bright Flares
Roche Brasiliano	Spearfishing	Feathered Fly	Left Handed	Slicked Hair	Loud Whistles
Jacques Cassard	Deep Sea Jigging	Chum Bucket	Right Handed	Slicked Hair	Fresh Garlic
Francois lOlonnais	Deep Sea Jigging	Feathered Fly	Left Handed	Braided Beard	Fresh Garlic
Charles Vane	Net Throwing	Chum Bucket	Left Handed	Braided Beard	Bright Flares

CLUE 1 Rounding

The harbor sonar swept the murky channels, returning depth soundings rounded to the nearest fathom to track the culprit's escape path.

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

T																T
900	1100	90	170	290	3000	3000	370	290	110	1700	4300	90	1300	110	4300	900
							T									
430	1300	90	370	130	90	370	900	1100	90	3700	90	1700	130	3000	500	

Round 887 to the nearest hundred → **T**

Round 367 to the nearest ten → **A**

Round 1,053 to the nearest hundred → **H**

Round 133 to the nearest ten → **F**

Round 1,320 to the nearest hundred → **S**

Round 4,281 to the nearest hundred → **O**

Round 434 to the nearest ten → **U**

Round 169 to the nearest ten → **V**

Round 109 to the nearest ten → **N**

Round 3,726 to the nearest hundred → **R**

Round 1,719 to the nearest hundred → **D**

Round 2,559 to the nearest thousand → **L**

Round 287 to the nearest ten → **I**

Round 91 to the nearest ten → **E**

Round 484 to the nearest hundred → **Y**

Scratch space:

CLUE 2 Addition

You inspect the quartermaster's manifest, combining the weights of recovered crates to calculate the total loot stolen from the vault.

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

W									W									
2821	5630	4903	9868	5741	7624	7624	7624	9396	2821	8875	5741	2130	4903	3251	9396	9868	4429	
5344	9396	7624	4903	5630	9868	6294	4903	3251	5741	8875	5630	9868	5741					

$$1116 + 1705 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$2082 + 1169 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2509 + 1920 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$3807 + 5068 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$5213 + 2411 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$5852 + 4016 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$2105 + 3239 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$1080 + 1050 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$3154 + 1749 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$2184 + 3557 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$3288 + 3006 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$5485 + 3911 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$3537 + 2093 = \boxed{} \rightarrow \boxed{\text{I}}$$

Scratch space:

CLUE 3

Comparing the dockmaster's inventory log before and after the raid reveals the exact amount of missing fishing gear.

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

Diagram illustrating a sequence of numbers arranged in two rows of boxes. The first row contains 14 boxes, with the first box containing 'B' and the 11th box containing 'B'. The second row contains 12 boxes. Below each box is a number.

Row 1 (14 boxes):

- Box 1: B
- Box 2: 7442
- Box 3: 8832
- Box 4: 7509
- Box 5: 3874
- Box 6: 7509
- Box 7: 8641
- Box 8: 3841
- Box 9: 4178
- Box 10: 7627
- Box 11: B
- Box 12: 8832
- Box 13: 7789
- Box 14: 5505

Row 2 (12 boxes):

- Box 1: 8639
- Box 2: 3073
- Box 3: 7789
- Box 4: 5505
- Box 5: 2732
- Box 6: 4766
- Box 7: 7442
- Box 8: 7509
- Box 9: 5120
- Box 10: 8832
- Box 11: 7789
- Box 12: 4178

$$5197 - 2371 = \boxed{} \rightarrow \boxed{\text{B}}$$

$$12684 - 3852 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$4794 - 28 = \boxed{} \rightarrow \boxed{0}$$

$8107 - 2987 = \boxed{} \rightarrow \boxed{\text{D}}$

9233 - 594 = → **T**

$10980 - 3191 = \boxed{} \rightarrow \boxed{\text{E}}$

$10002 - 2375 =$		$\rightarrow$	A
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$$8898 - 3393 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$7063 - 3189 = \boxed{} \rightarrow \boxed{}$$

$$3288 - 215 = \boxed{} \rightarrow \boxed{\text{H}}$$

$8327 - 818 = \square \rightarrow \boxed{\mathbf{N}}$

7475 - 33 = → **U**

$3329 - 597 = \boxed{} \rightarrow \boxed{\text{C}}$

$8703 - 62 = \boxed{} \rightarrow \boxed{\text{G}}$

$$7438 - 3260 = \boxed{} \rightarrow \boxed{\text{L}}$$

$6334 - 2493 = \boxed{} \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

Examining the rack of tackle boxes, you notice several identical rows of lures and multiply them to count the culprit's stash.

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

B						B											
54	15	10	72	15	72	54	15	10	1	72	22	16	1	10	44	72	22
30	15	1	15	144	44	16	3	15	72	15	60	132					

$6 \times 9 = \square \rightarrow \text{B}$

$2 \times 5 = \square \rightarrow \text{A}$

$1 \times 3 = \square \rightarrow \text{H}$

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

$8 \times 9 = \square \rightarrow \text{D}$

$3 \times 10 = \square \rightarrow \text{W}$

$1 \times 1 = \square \rightarrow \text{R}$

$11 \times 2 = \square \rightarrow \text{S}$

$11 \times 4 = \square \rightarrow \text{N}$

$5 \times 12 = \square \rightarrow \text{C}$

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

$3 \times 5 = \square \rightarrow \text{E}$

$12 \times 12 = \square \rightarrow \text{O}$

Scratch space:

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

Dividing the salvaged gold coins equally among the local fishmongers gives you the final clue to identify the suspect.

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:

$15 \div 5 = \boxed{}$

$20 \div 4 = \boxed{}$

$77 \div 7 = \boxed{}$

$14 \div 2 = \boxed{}$

$42 \div 7 = \boxed{}$

$44 \div 11 = \boxed{}$

$54 \div 6 = \boxed{}$

$8 \div 8 = \boxed{}$

$50 \div 5 = \boxed{}$

$36 \div 3 = \boxed{}$

$32 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain drags a heavy troll rig behind the skiff, then dumps a smelly chum bucket in the water.
2. The villain flings a weighted net over the cargo, then flashes a silver spinner in the moonlight.
3. The villain flings a weighted net over the cargo, then dumps a smelly chum bucket in the water.
4. The villain flings a weighted net over the cargo, then distracts guards with a glowing squid.
5. The villain whips a long fly rod through the mist, then dumps a smelly chum bucket in the water.
6. The villain whips a long fly rod through the mist, then flashes a silver spinner in the moonlight.
7. The villain drags a heavy troll rig behind the skiff, then flashes a silver spinner in the moonlight.
8. The villain casts a heavy line across the harbor, then flashes a silver spinner in the moonlight.
9. The villain flings a weighted net over the cargo, then drops a feathered fly onto the deck.
10. The villain drags a heavy troll rig behind the skiff, then drops a feathered fly onto the deck.
11. The villain drags a heavy troll rig behind the skiff, then blinds lookouts with a golden spoon.
12. The villain casts a heavy line across the harbor, then drops a feathered fly onto the deck.

Answer Key

The Mystery of the Harbor Haul

Culprit: Christopher Condent

Net Throwing · Silver Spinner · Left Handed · Braided Beard · Bright Flares

Trail: Start 21 → Clue 1 14 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT USE A FEATHERED FLY"

Round 887 to the nearest hundred = 900 (T) · Round 367 to the nearest ten = 370 (A) · Round 1,053 to the nearest hundred = 1100 (H) · Round 133 to the nearest ten = 130 (F) · Round 1,320 to the nearest hundred = 1300 (S) · Round 4,281 to the nearest hundred = 4300 (O) · Round 434 to the nearest ten = 430 (U) · Round 169 to the nearest ten = 170 (V) · Round 109 to the nearest ten = 110 (N) · Round 3,726 to the nearest hundred = 3700 (R) · Round 1,719 to the nearest hundred = 1700 (D) · Round 2,559 to the nearest thousand = 3000 (L) · Round 287 to the nearest ten = 290 (I) · Round 91 to the nearest ten = 90 (E) · Round 484 to the nearest hundred = 500 (Y)

Clue 2 (Addition): "WITNESS SAW LEFT HAND CASTING THE LINE"

$1116 + 1705 = 2821$ (W) · $2082 + 1169 = 3251$ (H) · $2509 + 1920 = 4429$ (D) · $3807 + 5068 = 8875$ (L) · $5213 + 2411 = 7624$ (S) · $5852 + 4016 = 9868$ (N) · $2105 + 3239 = 5344$ (C) · $1080 + 1050 = 2130$ (F) · $3154 + 1749 = 4903$ (T) · $2184 + 3557 = 5741$ (E) · $3288 + 3006 = 6294$ (G) · $5485 + 3911 = 9396$ (A) · $3537 + 2093 = 5630$ (I)

Clue 3 (Subtraction): "BURNING FLARES BLINDED THE SCOUNDREL"

$5197 - 2371 = 2826$ (B) · $12684 - 3852 = 8832$ (R) · $4794 - 28 = 4766$ (O) · $8107 - 2987 = 5120$ (D) · $9233 - 594 = 8639$ (T) · $10980 - 3191 = 7789$ (E) · $10002 - 2375 = 7627$ (A) · $8898 - 3393 = 5505$ (S) · $7063 - 3189 = 3874$ (I) · $3288 - 215 = 3073$ (H) · $8327 - 818 = 7509$ (N) · $7475 - 33 = 7442$ (U) · $3329 - 597 = 2732$ (C) · $8703 - 62 = 8641$ (G) · $7438 - 3260 = 4178$ (L) · $6334 - 2493 = 3841$ (F)

Clue 4 (Multiplication facts (1-12)): "BEADED BEARD STRANDS WERE ON THE DECK"

$6 \times 9 = 54$ (B) · $2 \times 5 = 10$ (A) · $1 \times 3 = 3$ (H) · $12 \times 11 = 132$ (K) · $8 \times 9 = 72$ (D) · $3 \times 10 = 30$ (W) · $1 \times 1 = 1$ (R) · $11 \times 2 = 22$ (S) · $11 \times 4 = 44$ (N) · $5 \times 12 = 60$ (C) · $8 \times 2 = 16$ (T) · $3 \times 5 = 15$ (E) · $12 \times 12 = 144$ (O)

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

$15 \div 5 = 3$ · $20 \div 4 = 5$ · $77 \div 7 = 11$ · $14 \div 2 = 7$ · $42 \div 7 = 6$ · $44 \div 11 = 4$ · $54 \div 6 = 9$ · $8 \div 8 = 1$ · $50 \div 5 = 10$ · $36 \div 3 = 12$ · $32 \div 4 = 8$