



The Sabotage of the Salty Sword

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

Detective: _____ **Date:** _____

A giant sea monster just rose from the waves to attack the ship! Amidst the roaring water and clashing steel, a traitor in the crew helped the monster by stealing the Captain's magical gold compass. We must find the culprit before the monster drags us under!

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 beast helper is _____

Possible suspects

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

NAME	SWORD STYLE	MONSTER MARK	PIRATE CREW	HAIR STYLE	SECRET FEAR
Marauder Max	Heavy block	Deep sea scale	Pirate lad	Blonde curls	Smelly garlic
First Mate Molly	Double parry	Deep sea scale	Pirate lad	Blonde curls	Smelly garlic
Jolly Roger	Heavy block	Ink splatters	Pirate lad	Black beard	Smelly garlic
Anchor Andy	Guard stance	Slime trails	Pirate lad	Blonde curls	Smelly garlic
Gunner Grace	Sabre spin	Slime trails	Pirate lass	Red braids	Bright lantern
Bootleg Bill	Heavy block	Deep sea scale	Pirate lass	Blonde curls	Smelly garlic
Swashbuckler Sid	Guard stance	Wet seaweed	Pirate lass	Blonde curls	Smelly garlic
Pistol Pete	Heavy block	Slime trails	Pirate lass	Black beard	Smelly garlic
Cannonball Cole	Heavy block	Slime trails	Pirate lass	Blonde curls	Loud whistle
Scurvy Sam	Swift slash	Wet seaweed	Pirate lad	Blonde curls	Smelly garlic
Sally Sails	Sabre spin	Deep sea scale	Pirate lass	Red braids	Smelly garlic
Cutlass Clara	Double parry	Barnacle crust	Pirate lass	Black beard	Smelly garlic
Sharktooth Sue	Sabre spin	Wet seaweed	Pirate lass	Black beard	Loud whistle
Hook Hand Helen	Sabre spin	Barnacle crust	Pirate lad	Black beard	Smelly garlic
Blackbeard Ned	Swift slash	Barnacle crust	Pirate lad	Blonde curls	Bright lantern
Pegleg Peggy	Heavy block	Wet seaweed	Pirate lad	Red braids	Smelly garlic
Goldie Glimmer	Guard stance	Ink splatters	Pirate lad	Blonde curls	Smelly garlic
Navigator Nancy	Double parry	Deep sea scale	Pirate lass	Blonde curls	Bright lantern
Red Dave	Double parry	Slime trails	Pirate lass	Black beard	Smelly garlic
Barnaby	Swift slash	Slime trails	Pirate lass	Red braids	Loud whistle
Lookout Luke	Swift slash	Deep sea scale	Pirate lad	Red braids	Bright lantern

CLUE 1 Rounding

Lookout Luke looks through his dusty brass spyglass. The giant monster has many wriggling tentacles, but his old lens only shows numbers rounded to the nearest ten. He estimates the tentacle count to find our first clue.

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

T			T				T										
7000	400	800	7000	9000	50	60	7000	700	9000	400	50	40	2000	700	60	2000	70

				T	T			
40	5000	6000	50	7000	7000	800	9000	40

Round 7,053 to the nearest thousand → **T**

Round 70 to the nearest ten → **K**

Round 837 to the nearest hundred → **E**

Round 52 to the nearest ten → **A**

Round 381 to the nearest hundred → **H**

Round 8,761 to the nearest thousand → **R**

Round 5,294 to the nearest thousand → **P**

Round 2,016 to the nearest thousand → **N**

Round 36 to the nearest ten → **S**

Round 5,509 to the nearest thousand → **L**

Round 698 to the nearest hundred → **O**

Round 56 to the nearest ten → **I**

Scratch space:

CLUE 2 Addition

Sally Sails finds a pile of discarded weapons left on the wet deck. She adds the rusty cutlasses to the heavy iron daggers to count the total armory. Her neat sum reveals a fresh hint.

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

T					T													
594	776	250	552	475	594	591	250	917	917	917	298	552	298	621	797	400	591	795

				T				
433	475	472	298	594	250	207	298	953

$$368 + 226 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$180 + 292 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$285 + 148 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$115 + 183 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$499 + 454 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$158 + 92 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$500 + 297 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$188 + 403 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$111 + 96 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$248 + 152 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$175 + 300 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$258 + 363 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$635 + 282 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$390 + 405 = \boxed{} \rightarrow \boxed{\text{G}}$$

$$244 + 532 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$331 + 221 = \boxed{} \rightarrow \boxed{\text{W}}$$

Scratch space:

Subtraction

The giant monster smashed our wooden food crates! Gunner Grace counts our totalhardtack biscuits and subtracts the ones ruined by salty sea water to see what is left.

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

$$881 - 185 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$432 - 231 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$608 - 276 = \boxed{} \rightarrow \boxed{\text{L}}$$

$730 - 377 = \boxed{} \rightarrow \boxed{}$

$$427 - 167 = \boxed{} \rightarrow \boxed{\text{S}}$$

$760 - 150 = \boxed{} \rightarrow \mathbf{R}$

$353 - 243 = \boxed{} \rightarrow \mathbf{M}$

$$593 - 99 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$679 - 53 = \boxed{} \rightarrow \mathbf{F}$

$828 - 140 = \boxed{} \rightarrow \boxed{\text{C}}$

$$480 - 122 = \boxed{} \rightarrow \boxed{0}$$

$1015 - 398 = \boxed{} \rightarrow \boxed{\text{E}}$

$$951 - 204 = \boxed{} \rightarrow \boxed{\text{H}}$$

707 - 4 = → **G**

$668 - 78 = \boxed{} \rightarrow \boxed{\text{A}}$

$395 - 168 = \boxed{} \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The pirate crew lines up in neat rows on the deck to face the beast. Anchor Andy multiplies the rows of pirates by the number of swords each pirate holds to find the clue.

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

S			S													
48	63	8	48	63	8	18	2	35	8	70	45	99	144	50	63	96

										S
45	16	21	20	18	8	30	84	99	16	48

$8 \times 6 = \square \rightarrow \text{S}$

$12 \times 8 = \square \rightarrow \text{T}$

$2 \times 10 = \square \rightarrow \text{N}$

$7 \times 9 = \square \rightarrow \text{H}$

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

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

$2 \times 1 = \square \rightarrow \text{A}$

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

$11 \times 9 = \square \rightarrow \text{R}$

$4 \times 2 = \square \rightarrow \text{E}$

$7 \times 10 = \square \rightarrow \text{W}$

$3 \times 7 = \square \rightarrow \text{O}$

$6 \times 3 = \square \rightarrow \text{D}$

$5 \times 9 = \square \rightarrow \text{B}$

$7 \times 5 = \square \rightarrow \text{F}$

$10 \times 5 = \square \rightarrow \text{G}$

$7 \times 12 = \square \rightarrow \text{U}$

Scratch space:

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

To search the wet decks safely, the crew must split up. Navigator Nancy divides the brave pirates into equal search parties. The size of each group gives us the final secret.

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:

$63 \div 7 = \boxed{}$

$60 \div 6 = \boxed{}$

$84 \div 7 = \boxed{}$

$5 \div 5 = \boxed{}$

$22 \div 11 = \boxed{}$

$32 \div 4 = \boxed{}$

$11 \div 1 = \boxed{}$

$49 \div 7 = \boxed{}$

$28 \div 7 = \boxed{}$

$15 \div 3 = \boxed{}$

$60 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain parries with twin daggers, then drops sticky slime trails.
2. The villain slashes with a sharp cutlass, then loses a deep sea scale.
3. The villain slashes with a sharp cutlass, then drops wet salty seaweed.
4. The villain slashes with a sharp cutlass, then scrapes off a barnacle crust.
5. The villain holds a steady guard stance, then loses a deep sea scale.
6. The villain holds a steady guard stance, then drops wet salty seaweed.
7. The villain holds a steady guard stance, then scrapes off a barnacle crust.
8. The villain spins a polished sabre, then drops wet salty seaweed.
9. The villain parries with twin daggers, then loses a deep sea scale.
10. The villain holds a steady guard stance, then drops sticky slime trails.
11. The villain spins a polished sabre, then leaves dark ink splatters.
12. The villain blocks with a heavy wooden shield, then loses a deep sea scale.

Answer Key

The Sabotage of the Salty Sword

Culprit: Scurvy Sam

Swift slash · Wet seaweed · Pirate lad · Blonde curls · Smelly garlic

Trail: Start 21 → Clue 1 19 → Clue 2 8 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE TRAITOR HAS NO INK SPLATTERS"

Round 7,053 to the nearest thousand = 7000 (T) · Round 70 to the nearest ten = 70 (K) · Round 837 to the nearest hundred = 800 (E) · Round 52 to the nearest ten = 50 (A) · Round 381 to the nearest hundred = 400 (H) · Round 8,761 to the nearest thousand = 9000 (R) · Round 5,294 to the nearest thousand = 5000 (P) · Round 2,016 to the nearest thousand = 2000 (N) · Round 36 to the nearest ten = 40 (S) · Round 5,509 to the nearest thousand = 6000 (L) · Round 698 to the nearest hundred = 700 (O) · Round 56 to the nearest ten = 60 (I)

Clue 2 (Addition): "THE WITNESS SAW A YOUNG PIRATE LAD"

$368 + 226 = 594$ (T) · $180 + 292 = 472$ (R) · $285 + 148 = 433$ (P) · $115 + 183 = 298$ (A) · $499 + 454 = 953$ (D) · $158 + 92 = 250$ (E) · $500 + 297 = 797$ (O) · $188 + 403 = 591$ (N) · $111 + 96 = 207$ (L) · $248 + 152 = 400$ (U) · $175 + 300 = 475$ (I) · $258 + 363 = 621$ (Y) · $635 + 282 = 917$ (S) · $390 + 405 = 795$ (G) · $244 + 532 = 776$ (H) · $331 + 221 = 552$ (W)

Clue 3 (Subtraction): "THE SCALLYWAG RAN FROM SMELLY GARLIC"

$881 - 185 = 696$ (T) · $432 - 231 = 201$ (Y) · $608 - 276 = 332$ (L) · $730 - 377 = 353$ (I) · $427 - 167 = 260$ (S) · $760 - 150 = 610$ (R) · $353 - 243 = 110$ (M) · $593 - 99 = 494$ (W) · $679 - 53 = 626$ (F) · $828 - 140 = 688$ (C) · $480 - 122 = 358$ (O) · $1015 - 398 = 617$ (E) · $951 - 204 = 747$ (H) · $707 - 4 = 703$ (G) · $668 - 78 = 590$ (A) · $395 - 168 = 227$ (N)

Clue 4 (Multiplication facts (1-12)): "SHE SHED A FEW BRIGHT BLONDE CURLS"

$8 \times 6 = 48$ (S) · $12 \times 8 = 96$ (T) · $2 \times 10 = 20$ (N) · $7 \times 9 = 63$ (H) · $12 \times 12 = 144$ (I) · $8 \times 2 = 16$ (L) · $2 \times 1 = 2$ (A) · $10 \times 3 = 30$ (C) · $11 \times 9 = 99$ (R) · $4 \times 2 = 8$ (E) · $7 \times 10 = 70$ (W) · $3 \times 7 = 21$ (O) · $6 \times 3 = 18$ (D) · $5 \times 9 = 45$ (B) · $7 \times 5 = 35$ (F) · $10 \times 5 = 50$ (G) · $7 \times 12 = 84$ (U)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Scurvy Sam

$63 \div 7 = 9$ · $60 \div 6 = 10$ · $84 \div 7 = 12$ · $5 \div 5 = 1$ · $22 \div 11 = 2$ · $32 \div 4 = 8$ · $11 \div 1 = 11$ · $49 \div 7 = 7$ · $28 \div 7 = 4$ · $15 \div 3 = 5$ · $60 \div 10 = 6$