



The Great Pearl Reef Heist

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

Detective: _____ Date: _____

A sneaky villain swam into the Royal Vault at Crystal Reef and snatched the Glowing Crown Pearl! The Reef Patrol needs your help to decode the clues, track down the culprit, and save the kingdom.

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 Sea Sneak is _____

Possible suspects

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

NAME	OCEAN MOVE	MERMAID GEAR	DOMINANT FIN	HAIR COLOR	SECRET WEAKNESS
Tide	Bubble Blast	Anchor Shield	Right Fin Dominant	Kelp Green	Tickled By Seagrass
Delphin	Current Dash	Glow Tail	Left Fin Dominant	Seafoam Blue	Scared Of Urchins
Kai	Current Dash	Kelp Lasso	Right Fin Dominant	Seafoam Blue	Tickled By Seagrass
Coral	Current Dash	Glow Tail	Right Fin Dominant	Kelp Green	Distracted By Pearls
Caspian	Siren Song	Trident Flash	Left Fin Dominant	Coral Pink	Tickled By Seagrass
Triton	Bubble Blast	Kelp Lasso	Left Fin Dominant	Coral Pink	Distracted By Pearls
Ocean	Tide Turn	Glow Tail	Left Fin Dominant	Seafoam Blue	Tickled By Seagrass
Ray	Whale Whistle	Shell Armor	Left Fin Dominant	Seafoam Blue	Distracted By Pearls
Pearlina	Current Dash	Trident Flash	Right Fin Dominant	Seafoam Blue	Tickled By Seagrass
Bay	Whale Whistle	Shell Armor	Left Fin Dominant	Seafoam Blue	Tickled By Seagrass
Harbor	Bubble Blast	Kelp Lasso	Right Fin Dominant	Seafoam Blue	Tickled By Seagrass
Reef	Siren Song	Glow Tail	Right Fin Dominant	Seafoam Blue	Distracted By Pearls
Coralie	Bubble Blast	Trident Flash	Right Fin Dominant	Kelp Green	Distracted By Pearls
Sandy	Tide Turn	Anchor Shield	Right Fin Dominant	Seafoam Blue	Tickled By Seagrass
Pearl	Current Dash	Glow Tail	Left Fin Dominant	Coral Pink	Scared Of Urchins
Nerida	Tide Turn	Anchor Shield	Left Fin Dominant	Seafoam Blue	Scared Of Urchins
Shelly	Whale Whistle	Glow Tail	Right Fin Dominant	Kelp Green	Distracted By Pearls
Urchin	Whale Whistle	Kelp Lasso	Right Fin Dominant	Seafoam Blue	Tickled By Seagrass
Pacifica	Tide Turn	Anchor Shield	Left Fin Dominant	Kelp Green	Distracted By Pearls
Finn	Tide Turn	Glow Tail	Right Fin Dominant	Seafoam Blue	Scared Of Urchins
Marina	Tide Turn	Glow Tail	Right Fin Dominant	Kelp Green	Tickled By Seagrass

CLUE 1
Multiplication facts (1-12)

You count the neat rows of clam shells planted around the vault entrance to unlock the first clue vault.

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

T 63	80	25	90	96	90	4	25	40	T 63	5	30	25	90	55	30	T 63
96	90	25	T 63	108	9	5	25	55	T 63	28	64	56	90	80		

$9 \times 7 = \square \rightarrow \text{T}$	$4 \times 7 = \square \rightarrow \text{F}$	$5 \times 5 = \square \rightarrow \text{E}$	$8 \times 5 = \square \rightarrow \text{C}$
$8 \times 8 = \square \rightarrow \text{L}$	$8 \times 10 = \square \rightarrow \text{H}$	$1 \times 5 = \square \rightarrow \text{D}$	
$12 \times 8 = \square \rightarrow \text{U}$	$9 \times 12 = \square \rightarrow \text{R}$	$5 \times 6 = \square \rightarrow \text{O}$	
$4 \times 1 = \square \rightarrow \text{P}$	$9 \times 10 = \square \rightarrow \text{S}$	$7 \times 8 = \square \rightarrow \text{A}$	
$11 \times 5 = \square \rightarrow \text{N}$	$3 \times 3 = \square \rightarrow \text{I}$		

Scratch space:

CLUE 2 Rounding

The glowing ocean radar rounds off the water depth to the nearest ten meters so you can read the next secret note.

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

R										R								R
7000	200	90	5000	80	2000	200	400	20	300	7000	40	4000	400	3000	300	7000		
80	5000	3000	600	3000	300	7000	500	60	300	8000	500	80						

Round 7,462 to the nearest thousand → **R**

Round 2,192 to the nearest thousand → **F**

Round 4,677 to the nearest thousand → **H**

Round 56 to the nearest ten → **V**

Round 81 to the nearest ten → **T**

Round 331 to the nearest hundred → **A**

Round 2,780 to the nearest thousand → **E**

Round 94 to the nearest ten → **G**

Round 226 to the nearest hundred → **I**

Round 424 to the nearest hundred → **N**

Round 8,487 to the nearest thousand → **U**

Round 539 to the nearest hundred → **L**

Round 40 to the nearest ten → **K**

Round 643 to the nearest hundred → **P**

Round 4,104 to the nearest thousand → **S**

Round 24 to the nearest ten → **M**

Scratch space:

CLUE 3 Addition

You tally up all the shiny scales found across three different coral beds to piece together the third evidence report.

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

S						S	S							S				
434	913	452	660	858	452	434	434	703	363	846	380	465	913	434	740	452	742	913

							S					
371	363	465	465	452	363	635	434	819	465	913	913	

$303 + 131 = \square \rightarrow$ S	$498 + 244 = \square \rightarrow$ D	$507 + 233 = \square \rightarrow$ M
$430 + 416 = \square \rightarrow$ C	$234 + 426 = \square \rightarrow$ G	$403 + 300 = \square \rightarrow$ T
$386 + 433 = \square \rightarrow$ F	$370 + 265 = \square \rightarrow$ N	$137 + 226 = \square \rightarrow$ I
$221 + 159 = \square \rightarrow$ K	$239 + 132 = \square \rightarrow$ V	$196 + 256 = \square \rightarrow$ A
$175 + 290 = \square \rightarrow$ L	$367 + 491 = \square \rightarrow$ R	$553 + 360 = \square \rightarrow$ E

Scratch space:

CLUE 4

Subtraction

By checking how many pearls remain in the royal treasure chest compared to yesterday, you reveal clue four.

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

B															
687	567	833	125	389	125	645	387	609	645	287	489	645	678	867	

694	867	678	387	750	125	694	678	258	750	678	694	125

$990 - 303 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$609 - 222 = \boxed{} \rightarrow \boxed{\mathbf{F}}$

$494 - 5 = \boxed{} \rightarrow \boxed{\mathbf{H}}$

$1052 - 358 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$626 - 59 = \boxed{} \rightarrow \boxed{\mathbf{L}}$

$1135 - 385 = \boxed{} \rightarrow \boxed{\mathbf{T}}$

$413 - 155 = \boxed{} \rightarrow \boxed{\mathbf{N}}$

$812 - 134 = \boxed{} \rightarrow \boxed{\mathbf{I}}$

$794 - 185 = \boxed{} \rightarrow \boxed{\mathbf{O}}$

$1068 - 235 = \boxed{} \rightarrow \boxed{\mathbf{U}}$

$279 - 154 = \boxed{} \rightarrow \boxed{\mathbf{E}}$

$411 - 124 = \boxed{} \rightarrow \boxed{\mathbf{M}}$

$566 - 177 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$861 - 216 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$956 - 89 = \boxed{} \rightarrow \boxed{\mathbf{R}}$

Scratch space:

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

The Reef Patrol splits up the glowing sea crystals equally among the team to power up the final hint scanner.

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:

$72 \div 9 = \boxed{}$

$120 \div 10 = \boxed{}$

$6 \div 1 = \boxed{}$

$77 \div 11 = \boxed{}$

$3 \div 1 = \boxed{}$

$24 \div 6 = \boxed{}$

$120 \div 12 = \boxed{}$

$16 \div 8 = \boxed{}$

$50 \div 10 = \boxed{}$

$1 \div 1 = \boxed{}$

$81 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sang a hypnotic siren song, then created a bright trident flash.
2. The villain blasted a cloud of bubbles, then flashed a brightly glowing tail.
3. The villain turned the tide around, then flashed a brightly glowing tail.
4. The villain dashed through the current, then flashed a brightly glowing tail.
5. The villain blew a loud whale whistle, then flashed a brightly glowing tail.
6. The villain blew a loud whale whistle, then swung a kelp lasso.
7. The villain blew a loud whale whistle, then ducked behind shell armor.
8. The villain turned the tide around, then blocked the doorway with an anchor shield.
9. The villain blasted a cloud of bubbles, then ducked behind shell armor.
10. The villain dashed through the current, then created a bright trident flash.
11. The villain dashed through the current, then swung a kelp lasso.
12. The villain blasted a cloud of bubbles, then swung a kelp lasso.

Answer Key

The Great Pearl Reef Heist

Culprit: Kai

Current Dash · Kelp Lasso · Right Fin Dominant · Seafoam Blue · Tickled By Seagrass

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SUSPECT DOES NOT USE TRIDENT FLASH"

$9 \times 7 = 63$ (T) · $4 \times 7 = 28$ (F) · $5 \times 5 = 25$ (E) · $8 \times 5 = 40$ (C) · $8 \times 8 = 64$ (L) · $8 \times 10 = 80$ (H) · $1 \times 5 = 5$ (D) · $12 \times 8 = 96$ (U) · $9 \times 12 = 108$ (R) · $5 \times 6 = 30$ (O) · $4 \times 1 = 4$ (P) · $9 \times 10 = 90$ (S) · $7 \times 8 = 56$ (A) · $11 \times 5 = 55$ (N) · $3 \times 3 = 9$ (I)

Clue 2 (Rounding): "RIGHT FIN MARKS NEAR THE PEARL VAULT"

Round 7,462 to the nearest thousand = 7000 (R) · Round 2,192 to the nearest thousand = 2000 (F) · Round 4,677 to the nearest thousand = 5000 (H) · Round 56 to the nearest ten = 60 (V) · Round 81 to the nearest ten = 80 (T) · Round 331 to the nearest hundred = 300 (A) · Round 2,780 to the nearest thousand = 3000 (E) · Round 94 to the nearest ten = 90 (G) · Round 226 to the nearest hundred = 200 (I) · Round 424 to the nearest hundred = 400 (N) · Round 8,487 to the nearest thousand = 8000 (U) · Round 539 to the nearest hundred = 500 (L) · Round 40 to the nearest ten = 40 (K) · Round 643 to the nearest hundred = 600 (P) · Round 4,104 to the nearest thousand = 4000 (S) · Round 24 to the nearest ten = 20 (M)

Clue 3 (Addition): "SEAGRASS TICKLES MADE VILLAINS FLEE"

$303 + 131 = 434$ (S) · $498 + 244 = 742$ (D) · $507 + 233 = 740$ (M) · $430 + 416 = 846$ (C) · $234 + 426 = 660$ (G) · $403 + 300 = 703$ (T) · $386 + 433 = 819$ (F) · $370 + 265 = 635$ (N) · $137 + 226 = 363$ (I) · $221 + 159 = 380$ (K) · $239 + 132 = 371$ (V) · $196 + 256 = 452$ (A) · $175 + 290 = 465$ (L) · $367 + 491 = 858$ (R) · $553 + 360 = 913$ (E)

Clue 4 (Subtraction): "BLUE SEAFOAM HAIR DRIFTED IN TIDE"

$990 - 303 = 687$ (B) · $609 - 222 = 387$ (F) · $494 - 5 = 489$ (H) · $1052 - 358 = 694$ (D) · $626 - 59 = 567$ (L) · $1135 - 385 = 750$ (T) · $413 - 155 = 258$ (N) · $812 - 134 = 678$ (I) · $794 - 185 = 609$ (O) · $1068 - 235 = 833$ (U) · $279 - 154 = 125$ (E) · $411 - 124 = 287$ (M) · $566 - 177 = 389$ (S) · $861 - 216 = 645$ (A) · $956 - 89 = 867$ (R)

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

$72 \div 9 = 8$ · $120 \div 10 = 12$ · $6 \div 1 = 6$ · $77 \div 11 = 7$ · $3 \div 1 = 3$ · $24 \div 6 = 4$ · $120 \div 12 = 10$ · $16 \div 8 = 2$ · $50 \div 10 = 5$ · $1 \div 1 = 1$ · $81 \div 9 = 9$