The Coral Cove Treasure Mystery

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

Detective: _____ **Date:** _____

Someone snagged the golden sea turtle statue from the sunken research station! Detective Reef must search the seafloor for clues to catch the robber.

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 Reef Robber is _____

Possible suspects

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

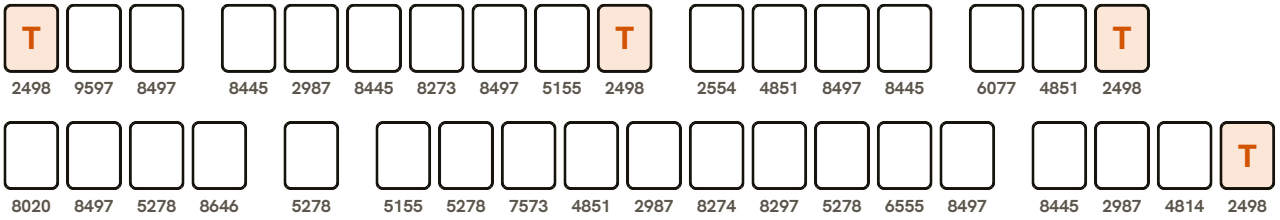
NAME	PRIMARY GEAR	TOOL USED	DOMINANT HAND	HELMET COLOR	FOILED BY
Mariner Marina	Bubble Shield	Laser Torch	Right Handed	Bright Orange Helmet	Loud Whistles
Fisher Finn	Bubble Shield	Ocean Scooter	Left Handed	Seafoam Green Helmet	Loud Whistles
Submariner Scott	Hydro-Jet Pack	Treasure Radar	Right Handed	Bright Orange Helmet	Sticky Seaweed
Pilot Pearl	Electric Net	Night Goggles	Left Handed	Neon Blue Helmet	Bright Flashlights
Tide Tim	Hydro-Jet Pack	Night Goggles	Left Handed	Neon Blue Helmet	Bright Flashlights
Captain Sandy	Bubble Shield	Laser Torch	Left Handed	Bright Orange Helmet	Loud Whistles
Sailor Maya	Hydro-Jet Pack	Camouflage Suit	Left Handed	Bright Orange Helmet	Sticky Seaweed
Harbor Holly	Grappling Anchor	Ocean Scooter	Left Handed	Bright Orange Helmet	Loud Whistles
Coastline Chloe	Electric Net	Treasure Radar	Right Handed	Bright Orange Helmet	Bright Flashlights
Ocean Olivia	Electric Net	Night Goggles	Right Handed	Neon Blue Helmet	Sticky Seaweed
Sailor Sam	Hydro-Jet Pack	Laser Torch	Left Handed	Seafoam Green Helmet	Bright Flashlights
Reef Robbie	Hydro-Jet Pack	Treasure Radar	Right Handed	Bright Orange Helmet	Loud Whistles
Current Cara	Sonar Blaster	Camouflage Suit	Right Handed	Bright Orange Helmet	Sticky Seaweed
Aquanaut Abby	Hydro-Jet Pack	Treasure Radar	Left Handed	Seafoam Green Helmet	Bright Flashlights
Commander Coral	Hydro-Jet Pack	Laser Torch	Right Handed	Bright Orange Helmet	Loud Whistles
Reef Ray	Sonar Blaster	Night Goggles	Right Handed	Bright Orange Helmet	Loud Whistles
Diver Dave	Hydro-Jet Pack	Treasure Radar	Left Handed	Neon Blue Helmet	Loud Whistles
Anchor Alex	Hydro-Jet Pack	Camouflage Suit	Right Handed	Bright Orange Helmet	Loud Whistles
Navigator Ned	Electric Net	Night Goggles	Left Handed	Bright Orange Helmet	Bright Flashlights
Diver Dan	Sonar Blaster	Night Goggles	Right Handed	Seafoam Green Helmet	Loud Whistles
Explorer Emma	Electric Net	Ocean Scooter	Left Handed	Neon Blue Helmet	Sticky Seaweed

CLUE 1

Addition

Detective Reef adds up the tally of shell clues left near the submarine hatch.

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



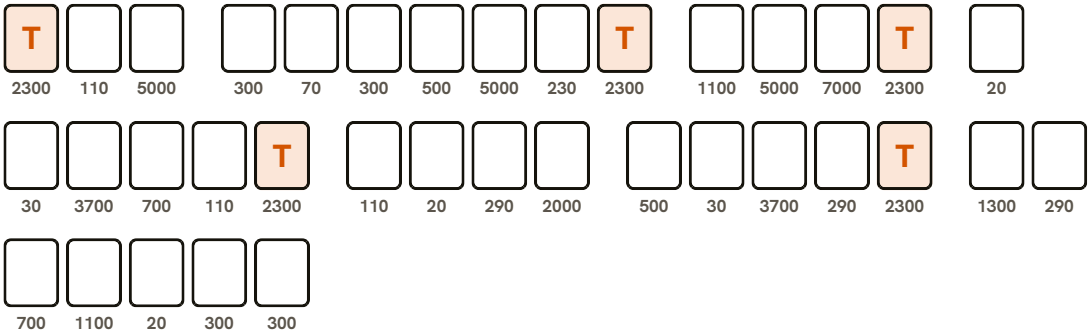
1710 + 788 = ☐ → T	4789 + 3485 = ☐ → F	3023 + 1828 = ☐ → O
3819 + 2736 = ☐ → G	4215 + 4230 = ☐ → S	5308 + 2965 = ☐ → P
3412 + 6185 = ☐ → H	4233 + 4064 = ☐ → L	1747 + 1240 = ☐ → U
4667 + 3830 = ☐ → E	2538 + 5035 = ☐ → M	1860 + 2954 = ☐ → I
1674 + 3604 = ☐ → A	1106 + 1448 = ☐ → D	5522 + 3124 = ☐ → R
2696 + 3381 = ☐ → N	1700 + 3455 = ☐ → C	2488 + 5532 = ☐ → W

Scratch space:

CLUE 2 Rounding

The submarine radar scanner rounds off the sonar signal distance to pinpoint the escape path.

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



Round 2,336 to the nearest hundred ☐ → T

Round 227 to the nearest ten ☐ → C

Round 66 to the nearest ten ☐ → U

Round 548 to the nearest hundred ☐ → P

Round 24 to the nearest ten ☐ → A

Round 1,260 to the nearest hundred ☐ → O

Round 651 to the nearest hundred ☐ → G

Round 3,675 to the nearest hundred ☐ → I

Round 2,254 to the nearest thousand ☐ → D

Round 7,480 to the nearest thousand ☐ → F

Round 290 to the nearest ten ☐ → N

Round 276 to the nearest hundred ☐ → S

Round 29 to the nearest ten ☐ → R

Round 1,121 to the nearest hundred ☐ → L

Round 5,364 to the nearest thousand ☐ → E

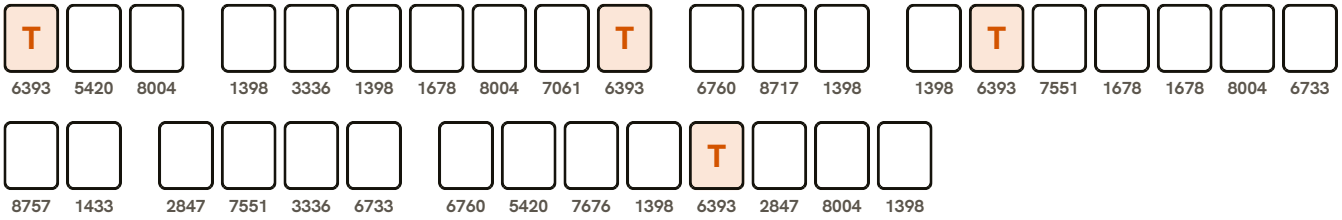
Round 108 to the nearest ten ☐ → H

Scratch space:

CLUE 3 Subtraction

Subtracting the leftover air tanks from the original supply shows how long the intruder stayed.

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



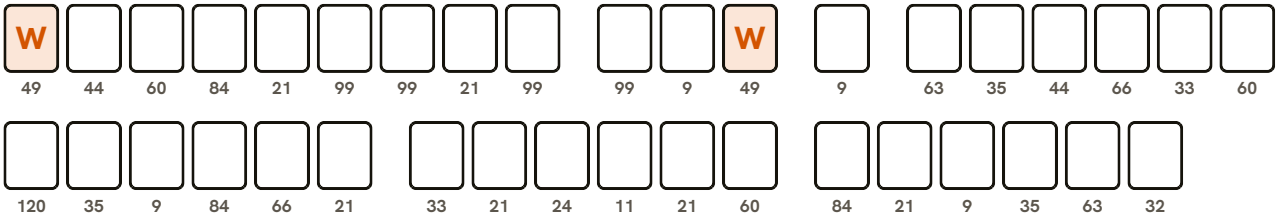
10573 - 4180 = ☐ → T	11155 - 4094 = ☐ → C	3672 - 2239 = ☐ → Y
12064 - 4513 = ☐ → O	9252 - 535 = ☐ → A	3859 - 1012 = ☐ → L
9089 - 2356 = ☐ → D	9207 - 1203 = ☐ → E	7288 - 3952 = ☐ → U
11381 - 4621 = ☐ → W	3304 - 1906 = ☐ → S	9690 - 933 = ☐ → B
12336 - 4660 = ☐ → I	6792 - 1372 = ☐ → H	5302 - 3624 = ☐ → P

Scratch space:

CLUE 4 Multiplication facts (1-12)

> Counting equal rows of glowing jellyfish helps decode the encrypted lab security grid.

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



7 × 7 = ☐ → W	5 × 7 = ☐ → R	11 × 9 = ☐ → S	8 × 4 = ☐ → Y
7 × 12 = ☐ → N	11 × 1 = ☐ → M	3 × 7 = ☐ → E	
10 × 12 = ☐ → O	11 × 4 = ☐ → I	7 × 9 = ☐ → B	
3 × 11 = ☐ → H	12 × 5 = ☐ → T	11 × 6 = ☐ → G	
3 × 3 = ☐ → A	3 × 8 = ☐ → L		

Scratch space:

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

> Dividing the salvaged gold coins equally among the bags gives the final lock code.

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:

12 ÷ 6 = ☐	56 ÷ 8 = ☐	44 ÷ 11 = ☐	120 ÷ 12 = ☐	32 ÷ 4 = ☐
55 ÷ 5 = ☐	54 ÷ 6 = ☐	12 ÷ 1 = ☐	12 ÷ 12 = ☐	6 ÷ 1 = ☐
35 ÷ 7 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain trapped the guard with an electric net, then found the chest using a treasure radar.
2. The villain zoomed in with a hydro jet pack, then cut the lock with a laser torch.
3. The villain deflected fish with a bubble shield, then cut the lock with a laser torch.
4. The villain blasted a path with sonar, then spotted the vault with night goggles.
5. The villain deflected fish with a bubble shield, then found the chest using a treasure radar.
6. The villain swung down using a grappling anchor, then cut the lock with a laser torch.
7. The villain zoomed in with a hydro jet pack, then found the chest using a treasure radar.
8. The villain deflected fish with a bubble shield, then escaped on an ocean scooter.
9. The villain trapped the guard with an electric net, then cut the lock with a laser torch.
10. The villain deflected fish with a bubble shield, then blended in with a camouflage suit.
11. The villain blasted a path with sonar, then cut the lock with a laser torch.
12. The villain swung down using a grappling anchor, then escaped on an ocean scooter.

TEACHER / PARENT

Answer Key

The Coral Cove Treasure Mystery

Culprit: Mariner Marina

Bubble Shield · Laser Torch · Right Handed · Bright Orange Helmet · Loud Whistles

Trail: Start 21 → Clue 1 18 → Clue 2 8 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SUSPECT DOES NOT WEAR A CAMOUFLAGE SUIT"

1710 + 788 = 2498 (T) · 4789 + 3485 = 8274 (F) · 3023 + 1828 = 4851 (O) · 3819 + 2736 = 6555 (G) · 4215 + 4230 = 8445 (S) · 5308 + 2965 = 8273 (P) · 3412 + 6185 = 9597 (H) · 4233 + 4064 = 8297 (L) · 1747 + 1240 = 2987 (U) · 4667 + 3830 = 8497 (E) · 2538 + 5035 = 7573 (M) · 1860 + 2954 = 4814 (I) · 1674 + 3604 = 5278 (A) · 1106 + 1448 = 2554 (D) · 5522 + 3124 = 8646 (R) · 2696 + 3381 = 6077 (N) · 1700 + 3455 = 5155 (C) · 2488 + 5532 = 8020 (W)

Clue 2 (Rounding): "THE SUSPECT LEFT A RIGHT HAND PRINT ON GLASS"

Round 2,336 to the nearest hundred = 2300 (T) · Round 227 to the nearest ten = 230 (C) · Round 66 to the nearest ten = 70 (U) · Round 548 to the nearest hundred = 500 (P) · Round 24 to the nearest ten = 20 (A) · Round 1,260 to the nearest hundred = 1300 (O) · Round 651 to the nearest hundred = 700 (G) · Round 3,675 to the nearest hundred = 3700 (I) · Round 2,254 to the nearest thousand = 2000 (D) · Round 7,480 to the nearest thousand = 7000 (F) · Round 290 to the nearest ten = 290 (N) · Round 276 to the nearest hundred = 300 (S) · Round 29 to the nearest ten = 30 (R) · Round 1,121 to the nearest hundred = 1100 (L) · Round 5,364 to the nearest thousand = 5000 (E) · Round 108 to the nearest ten = 110 (H)

Clue 3 (Subtraction): "THE SUSPECT WAS STOPPED BY LOUD WHISTLES"

10573 - 4180 = 6393 (T) · 11155 - 4094 = 7061 (C) · 3672 - 2239 = 1433 (Y) · 12064 - 4513 = 7551 (O) · 9252 - 535 = 8717 (A) · 3859 - 1012 = 2847 (L) · 9089 - 2356 = 6733 (D) · 9207 - 1203 = 8004 (E) · 7288 - 3952 = 3336 (U) · 11381 - 4621 = 6760 (W) · 3304 - 1906 = 1398 (S) · 9690 - 933 = 8757 (B) · 12336 - 4660 = 7676 (I) · 6792 - 1372 = 5420 (H) · 5302 - 3624 = 1678 (P)

Clue 4 (Multiplication facts (1-12)): "WITNESSES SAW A BRIGHT ORANGE HELMET NEARBY"

7 × 7 = 49 (W) · 5 × 7 = 35 (R) · 11 × 9 = 99 (S) · 8 × 4 = 32 (Y) · 7 × 12 = 84 (N) · 11 × 1 = 11 (M) · 3 × 7 = 21 (E) · 10 × 12 = 120 (O) · 11 × 4 = 44 (I) · 7 × 9 = 63 (B) · 3 × 11 = 33 (H) · 12 × 5 = 60 (T) · 11 × 6 = 66 (G) · 3 × 3 = 9 (A) · 3 × 8 = 24 (L)

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

12 ÷ 6 = 2 · 56 ÷ 8 = 7 · 44 ÷ 11 = 4 · 120 ÷ 12 = 10 · 32 ÷ 4 = 8 · 55 ÷ 5 = 11 · 54 ÷ 6 = 9 · 12 ÷ 1 = 12 · 12 ÷ 12 = 1 · 6 ÷ 1 = 6 · 35 ÷ 7 = 5