



The Mystery of Coral Cove

Grade 3 math · Addition, Skip counting, Place value, Rounding, Division · Reading level grades 3-4

Detective: _____ Date: _____

Someone swiped the Royal Glowing Pearl from the Reef Palace! Inspect the underwater clues and help Commander Fin solve the mystery.

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 Pearl Thief is _____

Possible suspects

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

NAME	SWIM SKILL	TAIL MAGIC	FIN MARK	TAIL COLOR	FEAR
Attina	Bubble Shield	Tide Control	Left Fin	Shimmer Pink	Tickle Kelp
Ursula	Bubble Shield	Seafoam Blast	Left Fin	Shimmer Pink	Bright Flash
Alana	Current Glide	Tide Control	Right Fin	Deep Sapphire	Loud Drums
Oceanus	Bubble Shield	Starfish Zap	Right Fin	Deep Sapphire	Tickle Kelp
Nixie	Coral Burst	Seafoam Blast	Right Fin	Shimmer Pink	Bright Flash
Aquata	Siren Song	Starfish Zap	Left Fin	Emerald Green	Tickle Kelp
Poseidon	Siren Song	Glowing Scales	Right Fin	Shimmer Pink	Bright Flash
Marina	Wave Dash	Tide Control	Left Fin	Emerald Green	Loud Drums
Cleo	Bubble Shield	Seafoam Blast	Right Fin	Shimmer Pink	Loud Drums
Ariel	Current Glide	Shell Blast	Right Fin	Deep Sapphire	Loud Drums
Caspian	Coral Burst	Tide Control	Right Fin	Deep Sapphire	Loud Drums
Melody	Current Glide	Starfish Zap	Right Fin	Deep Sapphire	Loud Drums
Sandy	Current Glide	Starfish Zap	Left Fin	Emerald Green	Tickle Kelp
Waverly	Siren Song	Glowing Scales	Right Fin	Deep Sapphire	Bright Flash
Triton	Wave Dash	Tide Control	Left Fin	Deep Sapphire	Loud Drums
Kai	Coral Burst	Glowing Scales	Left Fin	Shimmer Pink	Tickle Kelp
Nerida	Wave Dash	Seafoam Blast	Left Fin	Emerald Green	Loud Drums
Ondine	Siren Song	Starfish Zap	Right Fin	Deep Sapphire	Loud Drums
Arista	Wave Dash	Glowing Scales	Right Fin	Emerald Green	Loud Drums
Adella	Siren Song	Starfish Zap	Right Fin	Deep Sapphire	Tickle Kelp
Finn	Current Glide	Seafoam Blast	Right Fin	Emerald Green	Loud Drums

CLUE 1 Addition

Commander Fin tallies the broken shells along the sandy reef floor.

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

T 623	711	361	T 623	711	920	361	950	775	440	361	946	539	440	T 623	969	946	361
946	711	361	309	309	330	309	665	946	T 623	256	665	415	920	314			

$190 + 433 = \square \rightarrow \text{ T }$

$269 + 146 = \square \rightarrow \text{ G }$

$358 + 592 = \square \rightarrow \text{ F }$

$201 + 129 = \square \rightarrow \text{ B }$

$171 + 368 = \square \rightarrow \text{ N }$

$349 + 620 = \square \rightarrow \text{ U }$

$160 + 96 = \square \rightarrow \text{ M }$

$128 + 181 = \square \rightarrow \text{ L }$

$355 + 591 = \square \rightarrow \text{ S }$

$473 + 302 = \square \rightarrow \text{ D }$

$137 + 177 = \square \rightarrow \text{ C }$

$385 + 280 = \square \rightarrow \text{ A }$

$176 + 185 = \square \rightarrow \text{ E }$

$251 + 189 = \square \rightarrow \text{ O }$

$498 + 213 = \square \rightarrow \text{ H }$

$593 + 327 = \square \rightarrow \text{ I }$

Scratch space:

CLUE 2

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

Diagram illustrating the sequence of numbers and red markers (R) across two rows:

Row 1: 33 (R), 65, 90, 36, 6, 80, 65, 40, 140, 21, 65, 27, 10, 140, 21, 10, 33 (R), 10

Row 2: 140, 10, 10, 40, 40, 10, 14, 33 (R), 6, 36, 10, 18, 14, 30, 10

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **R**

Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 → **C**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 →

Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 → **V**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 → **F**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, , 39, 42 → **H**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **E**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, , 24, 27 → **W**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **S**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 → **G**

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **P**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **A**

Scratch space:

CLUE 3

Place value

Fin inspects the palace gate lock showing ones tens and hundreds.

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

L																
6000	2000	300	30	30	8000	300	80	10	80	1000	30	4000	40	50	4000	
40	50	70	4000	900	10	100	70	80	1000	100	1000	90				

What is the value of the 6 in 16,542?

→ L

What is the value of the 1 in 616?

→ S

What is the value of the 3 in 936?

→ D

What is the value of the 8 in 580?

→ M

What is the value of the 1 in 1,396?

→ A

What is the value of the 3 in 377?

→ U

What is the value of the 9 in 5,922?

→ F

What is the value of the 1 in 4,135?

→ W

What is the value of the 4 in 14,621?

→ E

What is the value of the 5 in 8,352?

→ H

What is the value of the 2 in 2,474?

→ O

What is the value of the 7 in 3,678?

→ I

What is the value of the 4 in 143?

→ T

What is the value of the 8 in 78,461?

→ R

What is the value of the 9 in 694?

→ Y

Scratch space:

CLUE 4

Rounding

The sonar reader rounds the ocean depth to the nearest ten.

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

D																	
300	40	40	30	20	60	30	30	50	6000	9000	40	20	90	60	5000	40	20
70	40	5000	5000	60	80	80	50	40	700	60	80	40					

Round 323 to the nearest hundred → **D**

Round 93 to the nearest ten → **C**

Round 56 to the nearest ten → **A**

Round 742 to the nearest hundred → **G**

Round 53 to the nearest ten → **H**

Round 43 to the nearest ten → **E**

Round 8,931 to the nearest thousand → **R**

Round 32 to the nearest ten → **P**

Round 21 to the nearest ten → **S**

Round 4,727 to the nearest thousand → **L**

Round 83 to the nearest ten → **T**

Round 70 to the nearest ten → **F**

Round 6,276 to the nearest thousand → **I**

Scratch space:

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

Fin splits the gathered shiny sea glass equally among the ocean patrols.

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:

$14 \div 2 = \boxed{}$

$15 \div 5 = \boxed{}$

$120 \div 12 = \boxed{}$

$12 \div 2 = \boxed{}$

$48 \div 6 = \boxed{}$

$15 \div 3 = \boxed{}$

$36 \div 4 = \boxed{}$

$36 \div 3 = \boxed{}$

$8 \div 4 = \boxed{}$

$48 \div 12 = \boxed{}$

$5 \div 5 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blasted a coral path, then shot shell blasts.
2. The villain blasted a coral path, then fired starfish zaps.
3. The villain glided on ocean currents, then steered the high tide.
4. The villain sang a siren song, then lit up glowing scales.
5. The villain sang a siren song, then created seafoam blasts.
6. The villain dashed through waves, then lit up glowing scales.
7. The villain glided on ocean currents, then fired starfish zaps.
8. The villain sang a siren song, then steered the high tide.
9. The villain glided on ocean currents, then shot shell blasts.
10. The villain sang a siren song, then fired starfish zaps.
11. The villain blasted a coral path, then steered the high tide.
12. The villain sang a siren song, then shot shell blasts.

Answer Key

The Mystery of Coral Cove

Culprit: Caspian

Coral Burst · Tide Control · Right Fin · Deep Sapphire · Loud Drums

Trail: Start 21 → Clue 1 20 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT USE SHELL BLAST MAGIC"

$190 + 433 = 623$ (T) · $269 + 146 = 415$ (G) · $358 + 592 = 950$ (F) · $201 + 129 = 330$ (B) · $171 + 368 = 539$ (N) · $349 + 620 = 969$ (U) · $160 + 96 = 256$ (M) · $128 + 181 = 309$ (L) · $355 + 591 = 946$ (S) · $473 + 302 = 775$ (D) · $137 + 177 = 314$ (C) · $385 + 280 = 665$ (A) · $176 + 185 = 361$ (E) · $251 + 189 = 440$ (O) · $498 + 213 = 711$ (H) · $593 + 327 = 920$ (I)

Clue 2 (Skip counting): "RIGHT FIN SWIPES WERE SEEN NEAR THE CAVE"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 = 40 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (C) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (I) · Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 = 30 (V) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (F) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (W) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (G) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (A)

Clue 3 (Place value): "LOUD DRUMS MADE THE THIEF SWIM AWAY"

What is the value of the 6 in 16,542? = 6000 (L) · What is the value of the 1 in 616? = 10 (S) · What is the value of the 3 in 936? = 30 (D) · What is the value of the 8 in 580? = 80 (M) · What is the value of the 1 in 1,396? = 1000 (A) · What is the value of the 3 in 377? = 300 (U) · What is the value of the 9 in 5,922? = 900 (F) · What is the value of the 1 in 4,135? = 100 (W) · What is the value of the 4 in 14,621? = 4000 (E) · What is the value of the 5 in 8,352? = 50 (H) · What is the value of the 2 in 2,474? = 2000 (O) · What is the value of the 7 in 3,678? = 70 (I) · What is the value of the 4 in 143? = 40 (T) · What is the value of the 8 in 78,461? = 8000 (R) · What is the value of the 9 in 694? = 90 (Y)

Clue 4 (Rounding): "DEEP SAPPHIRE SCALES FELL AT THE GATE"

Round 323 to the nearest hundred = 300 (D) · Round 93 to the nearest ten = 90 (C) · Round 56 to the nearest ten = 60 (A) · Round 742 to the nearest hundred = 700 (G) · Round 53 to the nearest ten = 50 (H) · Round 43 to the nearest ten = 40 (E) · Round 8,931 to the nearest thousand = 9000 (R) · Round 32 to the nearest ten = 30 (P) · Round 21 to the nearest ten = 20 (S) · Round 4,727 to the nearest thousand = 5000 (L) · Round 83 to the nearest ten = 80 (T) · Round 70 to the nearest ten = 70 (F) · Round 6,276 to the nearest thousand = 6000 (I)

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

$14 \div 2 = 7$ · $15 \div 5 = 3$ · $120 \div 12 = 10$ · $12 \div 2 = 6$ · $48 \div 6 = 8$ · $15 \div 3 = 5$ · $36 \div 4 = 9$ · $36 \div 3 = 12$ · $8 \div 4 = 2$ · $48 \div 12 = 4$ · $5 \div 5 = 1$