

The Great Pearl Mystery of Mew-Lantis

Grade 1 math · Addition, Subtraction, Skip counting, Place value, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

A sneaky purr-maid has taken the Golden Catnip Pearl from Mew-Lantis! We need to find the thief before they swim away. Let us solve the clues!

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 thief is _____

Possible suspects

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

NAME	MAIN POWER	SPECIAL SKILL	VISIBLE SIGN	HAIR COLOR	SORE SPOT
Daisy	Tidal Bubble	Pearl Glow	wears a pearl collar	blue coral hair	scared of bright lights
Oscar	Shell Shield	Pearl Glow	wears a shiny crown	pink seaweed hair	scared of bright lights
Sammy	Wave Sing	Catnip Blast	wears a pearl collar	blue coral hair	scared of bright lights
Bella	Shell Shield	Catnip Blast	wears a shiny crown	gold kelp hair	scared of bright lights
Misty	Kelp Tangler	Pearl Glow	wears a shiny crown	blue coral hair	scared of loud songs
Pearl	Tidal Bubble	Sand Kick	wears a pearl collar	blue coral hair	scared of bright lights
Milo	Tidal Bubble	Sand Kick	wears a pearl collar	gold kelp hair	scared of loud songs
Coral	Tidal Bubble	Bubble Net	wears a shiny crown	blue coral hair	scared of bright lights
Sandy	Shell Shield	Pearl Glow	wears a pearl collar	pink seaweed hair	scared of bright lights
Ziggy	Coral Dash	Bubble Net	wears a pearl collar	blue coral hair	scared of bright lights
Marina	Coral Dash	Pearl Glow	wears a pearl collar	blue coral hair	scared of bright lights
Ollie	Kelp Tangler	Fish Call	wears a pearl collar	gold kelp hair	scared of cold water
Cookie	Shell Shield	Catnip Blast	wears a pearl collar	blue coral hair	scared of cold water
Whisker	Coral Dash	Pearl Glow	wears a pearl collar	blue coral hair	scared of loud songs
Toby	Coral Dash	Fish Call	wears a shiny crown	gold kelp hair	scared of loud songs
Finny	Shell Shield	Sand Kick	wears a shiny crown	gold kelp hair	scared of loud songs
Splash	Shell Shield	Catnip Blast	wears a shiny crown	pink seaweed hair	scared of loud songs
Pippin	Wave Sing	Pearl Glow	wears a pearl collar	blue coral hair	scared of cold water
Flounder	Tidal Bubble	Bubble Net	wears a pearl collar	gold kelp hair	scared of bright lights
Cleo	Wave Sing	Bubble Net	wears a pearl collar	blue coral hair	scared of bright lights
Shelly	Coral Dash	Sand Kick	wears a shiny crown	blue coral hair	scared of bright lights

CLUE 1 **Addition**

We count the starfish helpers to search the reef. Let us add them up to find our path.

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

T 18	11	12	T 18	11	19	12	8	15	7	12	14	20	7	T 18	17	14	12
3	17	3	3	16	12	20	12	T 18									

$8 + 10 = \square \rightarrow \text{T}$	$10 + 7 = \square \rightarrow \text{U}$	$5 + 2 = \square \rightarrow \text{O}$	
$9 + 11 = \square \rightarrow \text{N}$	$5 + 7 = \square \rightarrow \text{E}$	$10 + 6 = \square \rightarrow \text{L}$	
$6 + 2 = \square \rightarrow \text{F}$	$9 + 6 = \square \rightarrow \text{D}$	$5 + 6 = \square \rightarrow \text{H}$	$2 + 1 = \square \rightarrow \text{B}$
$10 + 4 = \square \rightarrow \text{S}$	$12 + 7 = \square \rightarrow \text{I}$		

Scratch space:

CLUE 2

Subtraction

A crab dropped some of his shiny shells while running. Subtract the lost ones to find a clue.

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

T										T									
18	4	11	3	2	11	14	16	13	18	4	15	11	6	8	11	14	12	3	
14	5	11	14	12	10	19	1	10	10	14	12								

$19 - 1 = \square \rightarrow \boxed{\text{T}}$

$8 - 7 = \square \rightarrow \boxed{\text{O}}$

$8 - 6 = \square \rightarrow \boxed{\text{N}}$

$18 - 2 = \square \rightarrow \boxed{\text{K}}$

$15 - 7 = \square \rightarrow \boxed{\text{W}}$

$20 - 1 = \square \rightarrow \boxed{\text{C}}$

$10 - 5 = \square \rightarrow \boxed{\text{P}}$

$19 - 7 = \square \rightarrow \boxed{\text{R}}$

$7 - 3 = \square \rightarrow \boxed{\text{H}}$

$10 - 4 = \square \rightarrow \boxed{\text{F}}$

$10 - 7 = \square \rightarrow \boxed{\text{S}}$

$13 - 2 = \square \rightarrow \boxed{\text{E}}$

$17 - 7 = \square \rightarrow \boxed{\text{L}}$

$19 - 6 = \square \rightarrow \boxed{\text{Y}}$

$17 - 2 = \square \rightarrow \boxed{\text{I}}$

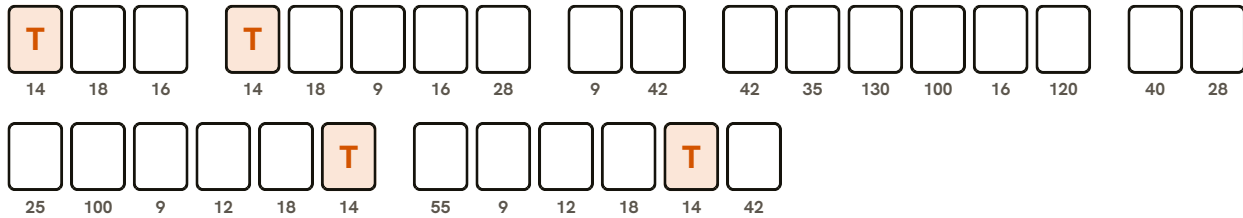
$18 - 4 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 3 Skip counting

Look at the bubble rows rising from the sand. Skip count by fives to read the secret bubble map.

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



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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **A**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **E**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **C**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 → **L**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 → **H**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 → **F**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **D**

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

Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 → **G**

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **I**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 → **B**

Scratch space:

CLUE 4

Place value

We find kelp strings packed in bundles of ten and some single ones. Group them to open the sea chest.

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

W														
62	91	74	42	33	51	27	56	99	33	91	31	42	82	96
76	96	70	82	96	23	23	76	91	35	31	91	51	91	

What number has 6 tens and 2 ones?

→ **W**

What number has 5 tens and 6 ones?

→ **B**

What number has 3 tens and 5 ones?

→ **S**

What number has 3 tens and 3 ones?

→ **U**

What number has 5 tens and 1 one?

→ **N**

What number has 3 tens and 1 one?

→ **C**

What number has 9 tens and 1 one?

→ **E**

What number has 7 tens and 4 ones?

→ **F**

What number has 7 tens and 6 ones?

→ **H**

What number has 9 tens and 9 ones?

→ **L**

What number has 9 tens and 6 ones?

→ **A**

What number has 7 tens and 0 ones?

→ **I**

What number has 2 tens and 3 ones?

→ **T**

What number has 4 tens and 2 ones?

→ **O**

What number has 8 tens and 2 ones?

→ **R**

What number has 2 tens and 7 ones?

→ **D**

Scratch space:

CLUE 5**Missing addends - the last clue**

The shell box should have ten pearls but some are missing. Find the missing number to unlock the gate.

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:

$2 + \underline{\quad} = 14$

$5 + \underline{\quad} = 14$

$3 + \underline{\quad} = 7$

$9 + \underline{\quad} = 12$

$9 + \underline{\quad} = 20$

$4 + \underline{\quad} = 10$

$10 + \underline{\quad} = 11$

$3 + \underline{\quad} = 8$

$2 + \underline{\quad} = 9$

$3 + \underline{\quad} = 5$

$5 + \underline{\quad} = 15$

Step 2 - cross out the sentence with each answer:

1. The villain raises a shell shield, then fires a catnip blast.
2. The villain sings a wave song, then throws a bubble net.
3. The villain sings a wave song, then makes a fish call.
4. The villain does a coral dash, then starts a pearl glow.
5. The villain tosses a kelp tangler, then starts a pearl glow.
6. The villain tosses a kelp tangler, then throws a bubble net.
7. The villain sings a wave song, then does a quick sand kick.
8. The villain sings a wave song, then fires a catnip blast.
9. The villain creates a tidal bubble, then does a quick sand kick.
10. The villain creates a tidal bubble, then fires a catnip blast.
11. The villain creates a tidal bubble, then makes a fish call.
12. The villain creates a tidal bubble, then starts a pearl glow.

Answer Key

The Great Pearl Mystery of Mew-Lantis

Culprit: Sammy

Wave Sing · Catnip Blast · wears a pearl collar · blue coral hair · scared of bright lights

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT USE BUBBLE NET"

$8 + 10 = 18$ (T) · $10 + 7 = 17$ (U) · $5 + 2 = 7$ (O) · $9 + 11 = 20$ (N) · $5 + 7 = 12$ (E) · $10 + 6 = 16$ (L) · $6 + 2 = 8$ (F) · $9 + 6 = 15$ (D) · $5 + 6 = 11$ (H) · $2 + 1 = 3$ (B) · $10 + 4 = 14$ (S) · $12 + 7 = 19$ (I)

Clue 2 (Subtraction): "THE SNEAKY THIEF WEARS A PEARL COLLAR"

$19 - 1 = 18$ (T) · $8 - 7 = 1$ (O) · $8 - 6 = 2$ (N) · $18 - 2 = 16$ (K) · $15 - 7 = 8$ (W) · $20 - 1 = 19$ (C) · $10 - 5 = 5$ (P) · $19 - 7 = 12$ (R) · $7 - 3 = 4$ (H) · $10 - 4 = 6$ (F) · $10 - 7 = 3$ (S) · $13 - 2 = 11$ (E) · $17 - 7 = 10$ (L) · $19 - 6 = 13$ (Y) · $17 - 2 = 15$ (I) · $18 - 4 = 14$ (A)

Clue 3 (Skip counting): "THE THIEF IS SCARED OF BRIGHT LIGHTS"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (E) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (C) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 = 18 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (F) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (R) · Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 = 12 (G) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (I) · Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 = 40 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (B)

Clue 4 (Place value): "WE FOUND BLUE CORAL HAIR AT THE SCENE"

What number has 6 tens and 2 ones? = 62 (W) · What number has 5 tens and 6 ones? = 56 (B) · What number has 3 tens and 5 ones? = 35 (S) · What number has 3 tens and 3 ones? = 33 (U) · What number has 5 tens and 1 one? = 51 (N) · What number has 3 tens and 1 one? = 31 (C) · What number has 9 tens and 1 one? = 91 (E) · What number has 7 tens and 4 ones? = 74 (F) · What number has 7 tens and 6 ones? = 76 (H) · What number has 9 tens and 9 ones? = 99 (L) · What number has 9 tens and 6 ones? = 96 (A) · What number has 7 tens and 0 ones? = 70 (I) · What number has 2 tens and 3 ones? = 23 (T) · What number has 4 tens and 2 ones? = 42 (O) · What number has 8 tens and 2 ones? = 82 (R) · What number has 2 tens and 7 ones? = 27 (D)

Clue 5 (Missing addends): surviving statement is box 8 → Sammy

$2 + \underline{\quad} = 14 = 12$ · $5 + \underline{\quad} = 14 = 9$ · $3 + \underline{\quad} = 7 = 4$ · $9 + \underline{\quad} = 12 = 3$ · $9 + \underline{\quad} = 20 = 11$ · $4 + \underline{\quad} = 10 = 6$ · $10 + \underline{\quad} = 11 = 1$ · $3 + \underline{\quad} = 8 = 5$ · $2 + \underline{\quad} = 9 = 7$ · $3 + \underline{\quad} = 5 = 2$ · $5 + \underline{\quad} = 15 = 10$