



The Mystery of the Missing Rainbow Pearl

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

Detective: _____ Date: _____

The Great Rainbow Pearl is gone! Someone swam into the Royal Reef Palace and snatched it right off the throne. Help the Coral Reef Patrol follow the clues and catch the culprit!

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 snatcher is _____

Possible suspects

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

NAME	SPECIAL MOVE	SEA BUDDY	ACCESSORY	HAIR COLOR	WEAKNESS
Nereus	wave rush	quick dolphin	wears coral ring	blue hair	trapped by nets
Glimmer	tail splash	wise sea turtle	wears coral ring	blue hair	trapped by nets
Ocean	shell burst	quick dolphin	wears kelp band	green hair	trapped by nets
Caspian	bubble swirl	giant octopus	wears coral ring	blue hair	scared of clams
Maris	tail splash	tiny seahorse	wears kelp band	green hair	trapped by nets
Siren	bubble swirl	quick dolphin	wears kelp band	pink hair	scared of clams
Tide	bubble swirl	tiny seahorse	wears kelp band	green hair	trapped by nets
Mako	wave rush	friendly crab	wears coral ring	blue hair	scared of clams
Opal	bubble swirl	tiny seahorse	wears coral ring	pink hair	tickled by kelp
Azure	net throw	quick dolphin	wears kelp band	blue hair	scared of clams
Delphina	wave rush	wise sea turtle	wears coral ring	blue hair	scared of clams
Pearl	shell burst	giant octopus	wears coral ring	pink hair	trapped by nets
Cascade	bubble swirl	giant octopus	wears kelp band	green hair	scared of clams
Finley	shell burst	tiny seahorse	wears coral ring	pink hair	scared of clams
Breeze	tail splash	wise sea turtle	wears kelp band	pink hair	scared of clams
Sandy	tail splash	tiny seahorse	wears kelp band	blue hair	scared of clams
Kai	tail splash	friendly crab	wears kelp band	blue hair	trapped by nets
Calypso	tail splash	wise sea turtle	wears coral ring	green hair	scared of clams
Ripply	shell burst	tiny seahorse	wears kelp band	green hair	scared of clams
Marina	bubble swirl	quick dolphin	wears coral ring	blue hair	scared of clams
Splash	tail splash	wise sea turtle	wears coral ring	blue hair	scared of clams

CLUE 1 Addition

Marina counts the shiny pearls found in two clam shells to gather clues.

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

T																			
20	4	14	5	11	14	3	13	19	20	4	10	14	12	9	6	14	5		
		T																	
11	6	20	17	5	14	3	16	10	3	11	20	6	7	20	6	8	17	5	

$10 + 10 = \square \rightarrow$ T	$5 + 12 = \square \rightarrow$ U	$8 + 5 = \square \rightarrow$ K	
$3 + 8 = \square \rightarrow$ N	$3 + 4 = \square \rightarrow$ C	$1 + 5 = \square \rightarrow$ O	$12 + 7 = \square \rightarrow$ Y
$6 + 2 = \square \rightarrow$ P	$3 + 2 = \square \rightarrow$ S	$1 + 2 = \square \rightarrow$ A	$4 + 8 = \square \rightarrow$ F
$12 + 4 = \square \rightarrow$ G	$3 + 7 = \square \rightarrow$ I	$6 + 8 = \square \rightarrow$ E	$3 + 1 = \square \rightarrow$ H
$2 + 7 = \square \rightarrow$ D			

Scratch space:

CLUE 2

Subtraction

The guard takes away the dropped glowing stones to see how many stay behind.

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

A									A		A						
6	1	2	12	17	7	16	16	16	6	1	6	11	13	2	3	10	12

					A							
13	7	14	8	4	13	6	5	13	2	17	3	

$9 - 3 = \square \rightarrow \boxed{\text{A}}$

$6 - 4 = \square \rightarrow \boxed{\text{I}}$

$12 - 8 = \square \rightarrow \boxed{\text{O}}$

$19 - 2 = \square \rightarrow \boxed{\text{N}}$

$10 - 2 = \square \rightarrow \boxed{\text{C}}$

$9 - 6 = \square \rightarrow \boxed{\text{G}}$

$14 - 7 = \square \rightarrow \boxed{\text{E}}$

$6 - 5 = \square \rightarrow \boxed{\text{W}}$

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

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

$19 - 3 = \square \rightarrow \boxed{\text{S}}$

$20 - 8 = \square \rightarrow \boxed{\text{T}}$

$13 - 3 = \square \rightarrow \boxed{\text{H}}$

$19 - 5 = \square \rightarrow \boxed{\text{D}}$

$17 - 6 = \square \rightarrow \boxed{\text{B}}$

Scratch space:

CLUE 3 Skip counting

Kai skip counts the rows of ocean flowers to follow the thief path.

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

T			T														
33	26	45	33	26	130	45	120	120	14	50	15	45	12	26	45	8	22
																T	
6	130	90	39	25	22	35	27	8	22	28	28	45	60	27	26	70	33

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

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

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

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

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

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 → **E**

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 → **Z**

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

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

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **N**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **H**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **C**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **D**

Scratch space:

CLUE 4 Place value

The deep sea scale shows tens and ones to unlock the secret chest.

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

B						B										
88	44	36	30	60	94	88	66	57	52	60	74	36	44	56	74	64
64	26	74	30	30	52	69	91	26	94	60	52	68	91	44	74	66

What number has 8 tens and 8 ones? → **B**

What number has 6 tens and 8 ones? → **C**

What number has 5 tens and 7 ones? → **U**

What number has 6 tens and 0 ones? → **H**

What number has 6 tens and 6 ones? → **L**

What number has 6 tens and 9 ones? → **D**

What number has 5 tens and 2 ones? → **E**

What number has 5 tens and 6 ones? → **W**

What number has 2 tens and 6 ones? → **N**

What number has 9 tens and 4 ones? → **T**

What number has 3 tens and 0 ones? → **G**

What number has 4 tens and 4 ones? → **R**

What number has 7 tens and 4 ones? → **A**

What number has 6 tens and 4 ones? → **S**

What number has 3 tens and 6 ones? → **I**

What number has 9 tens and 1 one? → **O**

Scratch space:

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

Pearl finds how many extra starfish are needed to balance the underwater 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:

$2 + \underline{\quad} = 3$

$6 + \underline{\quad} = 13$

$2 + \underline{\quad} = 12$

$10 + \underline{\quad} = 21$

$7 + \underline{\quad} = 19$

$6 + \underline{\quad} = 8$

$5 + \underline{\quad} = 13$

$2 + \underline{\quad} = 5$

$6 + \underline{\quad} = 11$

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

$9 + \underline{\quad} = 18$

Step 2 - cross out the sentence with each answer:

1. The villain surged forward with a wave rush, then hitched a ride on a wise sea turtle.
2. The villain tangled the guard with a net throw, then called upon a friendly crab to help.
3. The villain made a massive tail splash, then swam away alongside a quick dolphin.
4. The villain made a massive tail splash, then called upon a friendly crab to help.
5. The villain blasted open the box with a shell burst, then hitched a ride on a wise sea turtle.
6. The villain surged forward with a wave rush, then called upon a friendly crab to help.
7. The villain created a spinning bubble swirl, then swam away alongside a quick dolphin.
8. The villain tangled the guard with a net throw, then swam away alongside a quick dolphin.
9. The villain created a spinning bubble swirl, then hitched a ride on a wise sea turtle.
10. The villain made a massive tail splash, then hitched a ride on a wise sea turtle.
11. The villain created a spinning bubble swirl, then hid behind a tiny seahorse.
12. The villain created a spinning bubble swirl, then called upon a friendly crab to help.

Answer Key

The Mystery of the Missing Rainbow Pearl

Culprit: Mako

wave rush · friendly crab · wears coral ring · blue hair · scared of clams

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY THIEF DOES NOT USE A GIANT OCTOPUS"

$10 + 10 = 20$ (T) · $5 + 12 = 17$ (U) · $8 + 5 = 13$ (K) · $3 + 8 = 11$ (N) · $3 + 4 = 7$ (C) · $1 + 5 = 6$ (O) · $12 + 7 = 19$ (Y) · $6 + 2 = 8$ (P) · $3 + 2 = 5$ (S) · $1 + 2 = 3$ (A) · $4 + 8 = 12$ (F) · $12 + 4 = 16$ (G) · $3 + 7 = 10$ (I) · $6 + 8 = 14$ (E) · $3 + 1 = 4$ (H) · $2 + 7 = 9$ (D)

Clue 2 (Subtraction): "A WITNESS SAW A BRIGHT RED CORAL RING"

$9 - 3 = 6$ (A) · $6 - 4 = 2$ (I) · $12 - 8 = 4$ (O) · $19 - 2 = 17$ (N) · $10 - 2 = 8$ (C) · $9 - 6 = 3$ (G) · $14 - 7 = 7$ (E) · $6 - 5 = 1$ (W) · $19 - 6 = 13$ (R) · $10 - 5 = 5$ (L) · $19 - 3 = 16$ (S) · $20 - 8 = 12$ (T) · $13 - 3 = 10$ (H) · $19 - 5 = 14$ (D) · $17 - 6 = 11$ (B)

Clue 3 (Skip counting): "THE THIEF FROZE WHEN A BIG CLAM SNAPPED SHUT"

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

Clue 4 (Place value): "BRIGHT BLUE HAIR WAS SNAGGED ON THE CORAL"

What number has 8 tens and 8 ones? = 88 (B) · What number has 6 tens and 8 ones? = 68 (C) · What number has 5 tens and 7 ones? = 57 (U) · What number has 6 tens and 0 ones? = 60 (H) · What number has 6 tens and 6 ones? = 66 (L) · What number has 6 tens and 9 ones? = 69 (D) · What number has 5 tens and 2 ones? = 52 (E) · What number has 5 tens and 6 ones? = 56 (W) · What number has 2 tens and 6 ones? = 26 (N) · What number has 9 tens and 4 ones? = 94 (T) · What number has 3 tens and 0 ones? = 30 (G) · What number has 4 tens and 4 ones? = 44 (R) · What number has 7 tens and 4 ones? = 74 (A) · What number has 6 tens and 4 ones? = 64 (S) · What number has 3 tens and 6 ones? = 36 (I) · What number has 9 tens and 1 one? = 91 (O)

Clue 5 (Missing addends): surviving statement is box 6 → Mako

$2 + \underline{\quad} = 3 = 1$ · $6 + \underline{\quad} = 13 = 7$ · $2 + \underline{\quad} = 12 = 10$ · $10 + \underline{\quad} = 21 = 11$ · $7 + \underline{\quad} = 19 = 12$ · $6 + \underline{\quad} = 8 = 2$ · $5 + \underline{\quad} = 13 = 8$ · $2 + \underline{\quad} = 5 = 3$ · $6 + \underline{\quad} = 11 = 5$ · $3 + \underline{\quad} = 7 = 4$ · $9 + \underline{\quad} = 18 = 9$