



The Golden Dino Egg Mystery

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

Detective: _____ Date: _____

A rare golden egg has vanished from the Dino Island Camp! The Rescue Club needs to search for clues, track down the dino thief, and return the egg safely. Let us start the hunt!

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 Egg Thief is _____

Possible suspects

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

NAME	DINO PARTNER	EXPLORER TOOL	GLOVE COLOR	CAP COLOR	CAMP SNACK
Maya	Pterodactyl	Glow Torch	Red Gloves	Green Cap	Juicy Berries
Ella	Pterodactyl	Glow Torch	Red Gloves	Green Cap	Crunchy Ferns
Leo	T-Rex	Sling Bag	Red Gloves	Brown Fedora	Crunchy Ferns
Abby	T-Rex	Brass Compass	Blue Gloves	Yellow Cap	Juicy Berries
Zoe	Triceratops	Super Map	Blue Gloves	Yellow Cap	Sweet Melon
Sara	Pterodactyl	Super Map	Red Gloves	Green Cap	Juicy Berries
Max	Stegosaurus	Glow Torch	Red Gloves	Green Cap	Crunchy Ferns
Finn	T-Rex	Mega Lens	Red Gloves	Green Cap	Crunchy Ferns
Cole	T-Rex	Mega Lens	Blue Gloves	Brown Fedora	Sweet Melon
Luke	Triceratops	Glow Torch	Red Gloves	Brown Fedora	Sweet Melon
Ruby	Pterodactyl	Sling Bag	Blue Gloves	Yellow Cap	Sweet Melon
Cody	T-Rex	Super Map	Blue Gloves	Green Cap	Sweet Melon
Mia	T-Rex	Sling Bag	Red Gloves	Green Cap	Juicy Berries
Toby	Stegosaurus	Brass Compass	Red Gloves	Green Cap	Crunchy Ferns
Luna	Pterodactyl	Brass Compass	Blue Gloves	Brown Fedora	Sweet Melon
Lily	Raptor	Mega Lens	Red Gloves	Green Cap	Crunchy Ferns
Jack	Raptor	Mega Lens	Blue Gloves	Green Cap	Crunchy Ferns
Zack	Stegosaurus	Super Map	Blue Gloves	Green Cap	Sweet Melon
Owen	T-Rex	Mega Lens	Blue Gloves	Yellow Cap	Sweet Melon
Kate	T-Rex	Mega Lens	Red Gloves	Brown Fedora	Sweet Melon
Sam	Pterodactyl	Sling Bag	Blue Gloves	Yellow Cap	Juicy Berries

CLUE 1 Addition

We must count the dino bones we found today. Let us add the small bones and big bones together.

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

T			T											T			
11	5	3	11	5	15	3	6	12	7	3	20	9	7	11	13	20	3
T																	
11	5	3	8	2	14	20	20	4	7	17	18	14	20	20			

$6 + 5 = \square \rightarrow$ T	$3 + 6 = \square \rightarrow$ N	$2 + 2 = \square \rightarrow$ C	$4 + 1 = \square \rightarrow$ H
$10 + 4 = \square \rightarrow$ A	$4 + 8 = \square \rightarrow$ D	$6 + 11 = \square \rightarrow$ M	
$9 + 4 = \square \rightarrow$ U	$4 + 2 = \square \rightarrow$ F	$6 + 9 = \square \rightarrow$ I	$8 + 12 = \square \rightarrow$ S
$5 + 2 = \square \rightarrow$ O	$1 + 1 = \square \rightarrow$ R	$6 + 2 = \square \rightarrow$ B	$2 + 1 = \square \rightarrow$ E
$6 + 12 = \square \rightarrow$ P			

Scratch space:

CLUE 2

Subtraction

The sneaky thief took some of our water bottles. Subtract the lost bottles to see how many we have left.

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

T																	
15	1	19	3	11	19	13	4	17	19	18	15	5	19	6			

9	17	12	16	19	3	8	11	15	1	19	2	10	6				

$16 - 1 = \square \rightarrow \boxed{\text{T}}$

$11 - 9 = \square \rightarrow \boxed{\text{M}}$

$20 - 7 = \square \rightarrow \boxed{\text{A}}$

$14 - 8 = \square \rightarrow \boxed{\text{D}}$

$4 - 3 = \square \rightarrow \boxed{\text{H}}$

$14 - 3 = \square \rightarrow \boxed{\text{N}}$

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

$4 - 1 = \square \rightarrow \boxed{\text{S}}$

$7 - 2 = \square \rightarrow \boxed{\text{R}}$

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

$20 - 2 = \square \rightarrow \boxed{\text{F}}$

$15 - 3 = \square \rightarrow \boxed{\text{O}}$

$6 - 2 = \square \rightarrow \boxed{\text{K}}$

$15 - 5 = \square \rightarrow \boxed{\text{U}}$

$17 - 8 = \square \rightarrow \boxed{\text{G}}$

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

$18 - 1 = \square \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 3

Skip counting

We find tracks in the soft sand. We count the toes by twos to follow the path.

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

W																		
90	42	6	39	55	50	24	27	14	55	50	27	15	30	6	42	14	50	140
80	30	20	15	42	6	39	39	20	26	14	28	50	20	140				

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

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

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 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 → **C**

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

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

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

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

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

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 → **P**

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

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

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

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

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

Scratch space:

CLUE 4 Place value

The tracker box has tens and ones on the screen. Let us look at the digits to unlock the next map.

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

A													A				
54	79	46	51	23	75	92	23	46	77	77	15	14	54	58	81	77	59

51	15	92	75	77	79	13	76	75

What number has 5 tens and 4 ones? → **A**

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

What number has 1 ten and 5 ones? → **N**

What number has 2 tens and 3 ones? → **G**

What number has 5 tens and 8 ones? → **P**

What number has 7 tens and 6 ones? → **S**

What number has 5 tens and 1 one? → **I**

What number has 9 tens and 2 ones? → **T**

What number has 5 tens and 9 ones? → **L**

What number has 8 tens and 1 one? → **F**

What number has 1 ten and 4 ones? → **C**

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

What number has 7 tens and 9 ones? → **B**

What number has 7 tens and 7 ones? → **E**

What number has 1 ten and 3 ones? → **U**

Scratch space:

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

We need ten logs to cross the mud. We have seven logs. How many more do we need to find?

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:

$4 + \underline{\quad} = 12$

$4 + \underline{\quad} = 14$

$5 + \underline{\quad} = 8$

$4 + \underline{\quad} = 8$

$5 + \underline{\quad} = 12$

$3 + \underline{\quad} = 14$

$10 + \underline{\quad} = 22$

$7 + \underline{\quad} = 16$

$4 + \underline{\quad} = 6$

$7 + \underline{\quad} = 12$

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

Step 2 - cross out the sentence with each answer:

1. The villain sneaks past the sleeping guard, then splashes into the river.
2. The villain climbs the tall rock wall, then hides in a secret cave.
3. The villain runs through the jungle, then zips down a long vine.
4. The villain climbs the tall rock wall, then jumps into the treehouse.
5. The villain crosses the rope bridge, then zips down a long vine.
6. The villain runs through the jungle, then jumps into the treehouse.
7. The villain rides a fast dinosaur, then jumps into the treehouse.
8. The villain crosses the rope bridge, then splashes into the river.
9. The villain sneaks past the sleeping guard, then disappears in the thick fog.
10. The villain rides a fast dinosaur, then zips down a long vine.
11. The villain crosses the rope bridge, then hides in a secret cave.
12. The villain runs through the jungle, then hides in a secret cave.

Answer Key

The Golden Dino Egg Mystery

Culprit: Ella

Pterodactyl · Glow Torch · Red Gloves · Green Cap · Crunchy Ferns

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

Clue 1 (Addition): "THE THIEF DOES NOT USE THE BRASS COMPASS"

$6 + 5 = 11$ (T) · $3 + 6 = 9$ (N) · $2 + 2 = 4$ (C) · $4 + 1 = 5$ (H) · $10 + 4 = 14$ (A) · $4 + 8 = 12$ (D) · $6 + 11 = 17$ (M) · $9 + 4 = 13$ (U) · $4 + 2 = 6$ (F) · $6 + 9 = 15$ (I) · $8 + 12 = 20$ (S) · $5 + 2 = 7$ (O) · $1 + 1 = 2$ (R) · $6 + 2 = 8$ (B) · $2 + 1 = 3$ (E) · $6 + 12 = 18$ (P)

Clue 2 (Subtraction): "THE SNEAK LEFT RED GLOVES IN THE MUD"

$16 - 1 = 15$ (T) · $11 - 9 = 2$ (M) · $20 - 7 = 13$ (A) · $14 - 8 = 6$ (D) · $4 - 3 = 1$ (H) · $14 - 3 = 11$ (N) · $18 - 2 = 16$ (V) · $4 - 1 = 3$ (S) · $7 - 2 = 5$ (R) · $20 - 1 = 19$ (E) · $20 - 2 = 18$ (F) · $15 - 3 = 12$ (O) · $6 - 2 = 4$ (K) · $15 - 5 = 10$ (U) · $17 - 8 = 9$ (G) · $15 - 7 = 8$ (I) · $18 - 1 = 17$ (L)

Clue 3 (Skip counting): "WE FOUND CRUNCHY FERNS BY THE FOOTPRINTS"

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

Clue 4 (Place value): "A BRIGHT GREEN CAP FELL IN THE BUSHES"

What number has 5 tens and 4 ones? = 54 (A) · What number has 7 tens and 5 ones? = 75 (H) · What number has 1 ten and 5 ones? = 15 (N) · What number has 2 tens and 3 ones? = 23 (G) · What number has 5 tens and 8 ones? = 58 (P) · What number has 7 tens and 6 ones? = 76 (S) · What number has 5 tens and 1 one? = 51 (I) · What number has 9 tens and 2 ones? = 92 (T) · What number has 5 tens and 9 ones? = 59 (L) · What number has 8 tens and 1 one? = 81 (F) · What number has 1 ten and 4 ones? = 14 (C) · What number has 4 tens and 6 ones? = 46 (R) · What number has 7 tens and 9 ones? = 79 (B) · What number has 7 tens and 7 ones? = 77 (E) · What number has 1 ten and 3 ones? = 13 (U)

Clue 5 (Missing addends): surviving statement is box 1 → Ella

$4 + \underline{\quad} = 12 = 8$ · $4 + \underline{\quad} = 14 = 10$ · $5 + \underline{\quad} = 8 = 3$ · $4 + \underline{\quad} = 8 = 4$ · $5 + \underline{\quad} = 12 = 7$ · $3 + \underline{\quad} = 14 = 11$ · $10 + \underline{\quad} = 22 = 12$ · $7 + \underline{\quad} = 16 = 9$ · $4 + \underline{\quad} = 6 = 2$ · $7 + \underline{\quad} = 12 = 5$ · $4 + \underline{\quad} = 10 = 6$