



The Golden Egg Mystery

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

Detective: _____ **Date:** _____

Oh no! The shiny Golden Dino Egg is gone from the main nest. The ground is covered in giant footprints and crushed leaves. Ranger Bobby needs your help to track down the sneaky dinosaur who took it before the big museum opening!

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 bandit is _____

Possible suspects

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

NAME	DINO ATTACK	SPECIAL GEAR	FOOTPRINT ANGLE	CREST COLOR	SECRET WEAKNESS
Cera	sonic screech	glow scales	left footprint	green crest	loud whistles
Rex	super roar	ice breath	left footprint	red crest	sweet berries
Pippa	sonic screech	ice breath	left footprint	red crest	bright lights
Petrie	sonic screech	glow scales	right footprint	red crest	bright lights
Gogo	mega chomp	laser eyes	left footprint	green crest	loud whistles
Toby	stomp attack	jetpack flight	right footprint	red crest	bright lights
Rexy	mega chomp	glow scales	right footprint	green crest	loud whistles
Spike	super roar	glow scales	right footprint	red crest	loud whistles
Milo	tail whip	ice breath	right footprint	green crest	loud whistles
Littlefoot	sonic screech	laser eyes	left footprint	green crest	loud whistles
Trixie	super roar	digging claws	left footprint	green crest	loud whistles
Buster	stomp attack	jetpack flight	right footprint	red crest	sweet berries
Chomper	mega chomp	jetpack flight	left footprint	green crest	loud whistles
Steggy	mega chomp	jetpack flight	left footprint	green crest	sweet berries
Rocky	mega chomp	digging claws	left footprint	green crest	loud whistles
Ruby	stomp attack	glow scales	right footprint	blue crest	loud whistles
Trident	sonic screech	laser eyes	left footprint	red crest	loud whistles
Sammy	mega chomp	glow scales	left footprint	green crest	bright lights
Dolly	super roar	laser eyes	right footprint	green crest	loud whistles
Penny	tail whip	ice breath	left footprint	green crest	bright lights
Sandy	tail whip	jetpack flight	right footprint	red crest	loud whistles

CLUE 1 **Addition**

Ranger Bobby adds the path signs together to find where the thief went.

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

T									T								T
20	16	3	18	4	9	17	14	20	17	19	3	11	9	19	20		
16	4	5	3	17	14	6	6	14	9	6	12	8	4	13	11		

$14 + 6 = \square \rightarrow \text{ T }$

$8 + 10 = \square \rightarrow \text{ B }$

$5 + 7 = \square \rightarrow \text{ C }$

$9 + 4 = \square \rightarrow \text{ W }$

$7 + 4 = \square \rightarrow \text{ S }$

$4 + 1 = \square \rightarrow \text{ V }$

$3 + 6 = \square \rightarrow \text{ N }$

$9 + 5 = \square \rightarrow \text{ I }$

$1 + 2 = \square \rightarrow \text{ E }$

$12 + 4 = \square \rightarrow \text{ H }$

$14 + 5 = \square \rightarrow \text{ O }$

$1 + 3 = \square \rightarrow \text{ A }$

$4 + 4 = \square \rightarrow \text{ L }$

$3 + 3 = \square \rightarrow \text{ G }$

$10 + 7 = \square \rightarrow \text{ D }$

Scratch space:

CLUE 2

Subtraction

We find dropped treats and subtract the eaten ones to get a clue.

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

T													T						T
1	3	13	7	4	13	14	17	16	6	19	19	1	2	18	15	4	1		

					T		T						T
9	13	14	4	7	1	19	1	3	13	9	13	6	1

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

$20 - 4 = \square \rightarrow \boxed{\text{Y}}$

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

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

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

$18 - 5 = \square \rightarrow \boxed{\text{E}}$

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

$9 - 2 = \square \rightarrow \boxed{\text{S}}$

$14 - 5 = \square \rightarrow \boxed{\text{L}}$

$6 - 3 = \square \rightarrow \boxed{\text{H}}$

$20 - 6 = \square \rightarrow \boxed{\text{A}}$

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

$20 - 5 = \square \rightarrow \boxed{\text{I}}$

$11 - 7 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 3 Skip counting

We count the muddy toe prints by twos to follow the trail.

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

T			T															
110	8	36	110	8	90	36	35	120	30	6	30	24	30	130	35	120	12	27
42	12	39	55	24	8	90	65	T										

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 → **W**

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

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

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

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

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

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

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

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

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

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

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

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

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

Scratch space:

CLUE 4 Place value

The locked room has a secret keypad code with tens and ones.

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

T																T	
53	48	17	36	17	25	28	21	40	36	17	17	72	46	36	17	28	53
						T	T						T				
28	46	21	30	17	21	53	53	48	17	72	17	28	53				

What number has 5 tens and 3 ones? → **T**

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

What number has 4 tens and 8 ones? → **H**

What number has 4 tens and 0 ones? → **G**

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

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

What number has 1 ten and 7 ones? → **E**

What number has 2 tens and 1 one? → **A**

What number has 7 tens and 2 ones? → **N**

What number has 2 tens and 8 ones? → **S**

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

Scratch space:

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

We need ten fossil brushes but some are missing from the box.

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:

$6 + \underline{\quad} = 14$

$9 + \underline{\quad} = 19$

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

$10 + \underline{\quad} = 16$

$4 + \underline{\quad} = 16$

$10 + \underline{\quad} = 17$

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

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

$1 + \underline{\quad} = 2$

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

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

Step 2 - cross out the sentence with each answer:

1. The villain stomped past the big ferns, then zipped away using a rocket jetpack.
2. The villain chomped through the wooden gate, then froze the museum door with ice breath.
3. The villain chomped through the wooden gate, then zapped the lock with laser eyes.
4. The villain chomped through the wooden gate, then zipped away using a rocket jetpack.
5. The villain let out a loud rumbling roar, then scratched the dirt floor.
6. The villain let out a loud rumbling roar, then zapped the lock with laser eyes.
7. The villain made a high pitch screech, then froze the museum door with ice breath.
8. The villain made a high pitch screech, then lit up the dark room with glow scales.
9. The villain stomped past the big ferns, then zapped the lock with laser eyes.
10. The villain made a high pitch screech, then zapped the lock with laser eyes.
11. The villain stomped past the big ferns, then lit up the dark room with glow scales.
12. The villain let out a loud rumbling roar, then lit up the dark room with glow scales.

Answer Key

The Golden Egg Mystery

Culprit: Chomper

mega chomp · jetpack flight · left footprint · green crest · loud whistles

Trail: Start 21 → Clue 1 19 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT DOES NOT HAVE DIGGING CLAWS"

$14 + 6 = 20$ (T) · $8 + 10 = 18$ (B) · $5 + 7 = 12$ (C) · $9 + 4 = 13$ (W) · $7 + 4 = 11$ (S) · $4 + 1 = 5$ (V) · $3 + 6 = 9$ (N) · $9 + 5 = 14$ (I) · $1 + 2 = 3$ (E) · $12 + 4 = 16$ (H) · $14 + 5 = 19$ (O) · $1 + 3 = 4$ (A) · $4 + 4 = 8$ (L) · $3 + 3 = 6$ (G) · $10 + 7 = 17$ (D)

Clue 2 (Subtraction): "THE SNEAKY FOOTPRINT LEANS TO THE LEFT"

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

Clue 3 (Skip counting): "THE THIEF RAN AWAY FROM LOUD WHISTLES"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (M) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (Y) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (R) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (E) · Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 = 30 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (F) · Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 = 12 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (U)

Clue 4 (Place value): "THERE IS A GREEN CREST SCALE AT THE NEST"

What number has 5 tens and 3 ones? = 53 (T) · What number has 4 tens and 6 ones? = 46 (C) · What number has 4 tens and 8 ones? = 48 (H) · What number has 4 tens and 0 ones? = 40 (G) · What number has 3 tens and 0 ones? = 30 (L) · What number has 3 tens and 6 ones? = 36 (R) · What number has 1 ten and 7 ones? = 17 (E) · What number has 2 tens and 1 one? = 21 (A) · What number has 7 tens and 2 ones? = 72 (N) · What number has 2 tens and 8 ones? = 28 (S) · What number has 2 tens and 5 ones? = 25 (I)

Clue 5 (Missing addends): surviving statement is box 4 → Chomper

$6 + \underline{\quad} = 14 = 8$ · $9 + \underline{\quad} = 19 = 10$ · $2 + \underline{\quad} = 5 = 3$ · $10 + \underline{\quad} = 16 = 6$ · $4 + \underline{\quad} = 16 = 12$ · $10 + \underline{\quad} = 17 = 7$ · $9 + \underline{\quad} = 18 = 9$ · $10 + \underline{\quad} = 21 = 11$ · $1 + \underline{\quad} = 2 = 1$ · $7 + \underline{\quad} = 12 = 5$ · $4 + \underline{\quad} = 6 = 2$