# The Great Dino Egg Mystery

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

**Detective:** _____ **Date:** _____

A glowing rare dinosaur egg went missing from the camp! Follow the clues around the dig site to catch the sneaky thief.

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

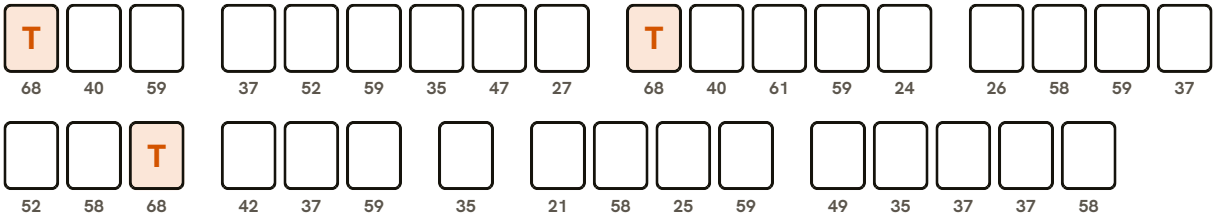
Cross off a row as each clue rules it out. The one left at the end is the culprit.

| NAME | DINO BUDDY | TOOL USED | STANCE | CAP COLOR | SCARED BY |
|---|---|---|---|---|---|
| **Piper Pebble** | Stego | Dino Whistle | Left Handed | Tan Cap | Mud Splash |
| **Penny Peat** | Raptor | Magnifying Glass | Left Handed | Tan Cap | Mud Splash |
| **Ivy Flint** | Pterodactyl | Magnifying Glass | Left Handed | Red Cap | Mud Splash |
| **Ruby Rock** | T Rex | Digging Shovel | Left Handed | Blue Cap | Loud Noise |
| **Tracker Tara** | Pterodactyl | Bone Brush | Left Handed | Red Cap | Loud Noise |
| **Gabe Gravel** | Stego | Magnifying Glass | Right Handed | Blue Cap | Mud Splash |
| **Bruno Boulder** | Triceratops | Dino Whistle | Left Handed | Red Cap | Mud Splash |
| **Leo Loam** | Raptor | Rope Lasso | Left Handed | Tan Cap | Bright Flash |
| **Ollie Ore** | Pterodactyl | Dino Whistle | Left Handed | Blue Cap | Mud Splash |
| **Jack Jasper** | Triceratops | Digging Shovel | Right Handed | Red Cap | Loud Noise |
| **Dr Bone** | T Rex | Dino Whistle | Left Handed | Red Cap | Bright Flash |
| **Nora Fossil** | Triceratops | Digging Shovel | Right Handed | Tan Cap | Mud Splash |
| **Daisy Dust** | Raptor | Bone Brush | Right Handed | Red Cap | Mud Splash |
| **Kira Quartz** | Stego | Dino Whistle | Left Handed | Blue Cap | Bright Flash |
| **Professor Digs** | Triceratops | Rope Lasso | Left Handed | Blue Cap | Mud Splash |
| **Amber Ash** | Stego | Dino Whistle | Left Handed | Blue Cap | Mud Splash |
| **Clay Cliff** | Stego | Magnifying Glass | Left Handed | Tan Cap | Mud Splash |
| **Dino Dan** | T Rex | Digging Shovel | Right Handed | Red Cap | Bright Flash |
| **Maya Mud** | Raptor | Dino Whistle | Left Handed | Blue Cap | Mud Splash |
| **Ranger Rex** | T Rex | Digging Shovel | Right Handed | Red Cap | Mud Splash |
| **Holly Hill** | Stego | Digging Shovel | Left Handed | Blue Cap | Mud Splash |

## CLUE 1 Addition

Ranger Sam found dino footprints in two trails. Count them together to read the clue.

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




39 + 29 = ☐ → T

17 + 23 = ☐ → H

11 + 10 = ☐ → R

17 + 20 = ☐ → S

16 + 19 = ☐ → A

20 + 29 = ☐ → L

24 + 34 = ☐ → O

12 + 12 = ☐ → F

19 + 8 = ☐ → Y

10 + 16 = ☐ → D

17 + 35 = ☐ → N

21 + 38 = ☐ → E

34 + 27 = ☐ → I

14 + 33 = ☐ → K

14 + 11 = ☐ → P

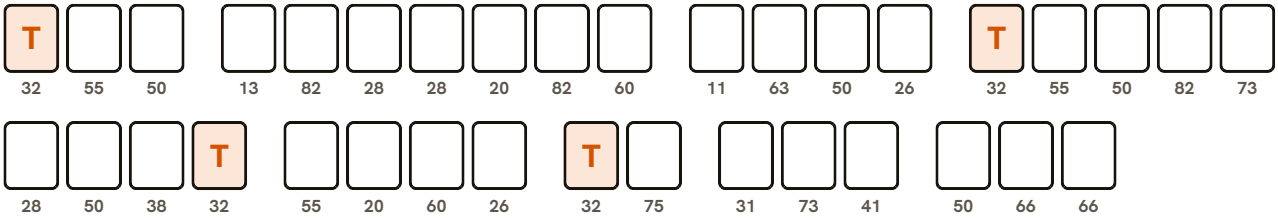
28 + 14 = ☐ → U

Scratch space:

## CLUE 2 Subtraction

Professor Fossil had fresh dino eggs, but some went missing. Subtract to find the clue.

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




48 - 16 = ☐ → T

18 - 5 = ☐ → V

72 - 6 = ☐ → G

91 - 31 = ☐ → N

66 - 28 = ☐ → F

105 - 23 = ☐ → I

56 - 28 = ☐ → L

67 - 17 = ☐ → E

101 - 28 = ☐ → R

88 - 13 = ☐ → O

36 - 5 = ☐ → P

69 - 6 = ☐ → S

79 - 38 = ☐ → Y

75 - 20 = ☐ → H

55 - 35 = ☐ → A

30 - 4 = ☐ → D

18 - 7 = ☐ → U

Scratch space:

## CLUE 3 Skip counting

Tracker Tina counted fossil teeth by twos along the dirt path to open the clue box.

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

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| T | | | | | | | | | | | | | | | | | | | |
| 22 | 15 | 120 | 30 | 10 | 28 | 28 | 55 | 10 | 110 | 70 | 55 | 110 | 55 | 42 | 55 | 16 | | | |
| | | | | | | | | | | | | | | | | | | | |
| 100 | 70 | 27 | 35 | 55 | 35 | 33 | 9 | 80 | 12 | 28 | 55 | 80 | 15 | | | | | | |

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

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 ☐ → **E**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 ☐ → **R**

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

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

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

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 ☐ → **H**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 ☐ → **I**

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 ☐ → **D**

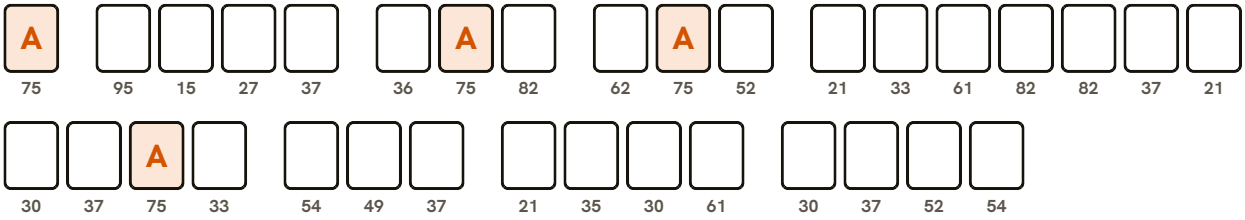
Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, ___, 14, 16 ☐ → **P**

Scratch space:

## CLUE 4 Place value

The camp computer shows tens and ones for the track length. Break it down to get the clue.

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




What number has 7 tens and 5 ones? ☐ → A

What number has 3 tens and 0 ones? ☐ → N

What number has 9 tens and 5 ones? ☐ → B

What number has 3 tens and 7 ones? ☐ → E

What number has 5 tens and 2 ones? ☐ → S

What number has 6 tens and 1 one? ☐ → O

What number has 3 tens and 6 ones? ☐ → C

What number has 4 tens and 9 ones? ☐ → H

What number has 3 tens and 5 ones? ☐ → I

What number has 2 tens and 1 one? ☐ → D

What number has 1 ten and 5 ones? ☐ → L

What number has 8 tens and 2 ones? ☐ → P

What number has 6 tens and 2 ones? ☐ → W

What number has 3 tens and 3 ones? ☐ → R

What number has 2 tens and 7 ones? ☐ → U

What number has 5 tens and 4 ones? ☐ → T

Scratch space:

## CLUE 5 Missing addends - the last clue

We need ten total brushes for the dig site. Solve for the missing amount to see the clue.

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:**

| | | | |
|---|---|---|---|
| 7 + ___ = 11 ☐ | 8 + ___ = 19 ☐ | 6 + ___ = 15 ☐ | 7 + ___ = 12 ☐ |
| 8 + ___ = 10 ☐ | 7 + ___ = 15 ☐ | 5 + ___ = 17 ☐ | 1 + ___ = 8 ☐ |
| 4 + ___ = 5 ☐ | 10 + ___ = 16 ☐ | 7 + ___ = 10 ☐ | |

**Step 2 - cross out the sentence with each answer:**

1. The villain marched with a heavy stego, then swung a long rope lasso.
2. The villain rode on a hungry t rex, then blew a noisy dino whistle.
3. The villain flew with a pterodactyl, then swung a long rope lasso.
4. The villain marched with a heavy stego, then blew a noisy dino whistle.
5. The villain rode on a hungry t rex, then dusted dirt with a bone brush.
6. The villain marched with a heavy stego, then searched with a magnifying glass.
7. The villain charged with a triceratops, then searched with a magnifying glass.
8. The villain rode on a hungry t rex, then searched with a magnifying glass.
9. The villain snuck with a fast raptor, then blew a noisy dino whistle.
10. The villain marched with a heavy stego, then dug dirt with a digging shovel.
11. The villain flew with a pterodactyl, then blew a noisy dino whistle.
12. The villain charged with a triceratops, then swung a long rope lasso.

TEACHER / PARENT

# Answer Key

The Great Dino Egg Mystery

## Culprit: Holly Hill

Stego · Digging Shovel · Left Handed · Blue Cap · Mud Splash

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 9 → Clue 4 4 → Clue 5 1

### Clue 1 (Addition): "THE SNEAKY THIEF DOES NOT USE A ROPE LASSO"

39 + 29 = 68 (T) · 17 + 23 = 40 (H) · 11 + 10 = 21 (R) · 17 + 20 = 37 (S) · 16 + 19 = 35 (A) · 20 + 29 = 49 (L) · 24 + 34 = 58 (O) · 12 + 12 = 24 (F) · 19 + 8 = 27 (Y) · 10 + 16 = 26 (D) · 17 + 35 = 52 (N) · 21 + 38 = 59 (E) · 34 + 27 = 61 (I) · 14 + 33 = 47 (K) · 14 + 11 = 25 (P) · 28 + 14 = 42 (U)

### Clue 2 (Subtraction): "THE VILLAIN USED THEIR LEFT HAND TO PRY EGG"

48 - 16 = 32 (T) · 18 - 5 = 13 (V) · 72 - 6 = 66 (G) · 91 - 31 = 60 (N) · 66 - 28 = 38 (F) · 105 - 23 = 82 (I) · 56 - 28 = 28 (L) · 67 - 17 = 50 (E) · 101 - 28 = 73 (R) · 88 - 13 = 75 (O) · 36 - 5 = 31 (P) · 69 - 6 = 63 (S) · 79 - 38 = 41 (Y) · 75 - 20 = 55 (H) · 55 - 35 = 20 (A) · 30 - 4 = 26 (D) · 18 - 7 = 11 (U)

### Clue 3 (Skip counting): "THE VILLAIN RAN AWAY FROM A MUD SPLASH"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (T) · 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 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 = 70 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (F) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 = 55 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 = 80 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (U) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 = 15 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 = 10 (I) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 = 16 (Y) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 = 42 (W) · Skip-count by 10s. Fill the blank: 10, 20, ___, 40, 50 = 30 (V) · Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 = 9 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, ___, 14, 16 = 12 (P)

### Clue 4 (Place value): "A BLUE CAP WAS DROPPED NEAR THE DINO NEST"

What number has 7 tens and 5 ones? = 75 (A) · What number has 3 tens and 0 ones? = 30 (N) · What number has 9 tens and 5 ones? = 95 (B) · What number has 3 tens and 7 ones? = 37 (E) · What number has 5 tens and 2 ones? = 52 (S) · What number has 6 tens and 1 one? = 61 (O) · What number has 3 tens and 6 ones? = 36 (C) · What number has 4 tens and 9 ones? = 49 (H) · What number has 3 tens and 5 ones? = 35 (I) · What number has 2 tens and 1 one? = 21 (D) · What number has 1 ten and 5 ones? = 15 (L) · What number has 8 tens and 2 ones? = 82 (P) · What number has 6 tens and 2 ones? = 62 (W) · What number has 3 tens and 3 ones? = 33 (R) · What number has 2 tens and 7 ones? = 27 (U) · What number has 5 tens and 4 ones? = 54 (T)

### Clue 5 (Missing addends): surviving statement is box 10 → Holly Hill

7 + ___ = 11 = 4 · 8 + ___ = 19 = 11 · 6 + ___ = 15 = 9 · 7 + ___ = 12 = 5 · 8 + ___ = 10 = 2 · 7 + ___ = 15 = 8 · 5 + ___ = 17 = 12 · 1 + ___ = 8 = 7 · 4 + ___ = 5 = 1 · 10 + ___ = 16 = 6 · 7 + ___ = 10 = 3