



The Mystery of the Golden Egg

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

Detective: _____ Date: _____

Oh no! Someone took the rare Golden T-Rex Egg from the park museum! We need to find the Fossil Bandit before the egg hatches!

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 Fossil 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 COMPANION	ADVENTURE TOOL	EYEWEAR	HEADWEAR	FRIGHTENED BY
Trixie Horn	Pterodactyl helper	Bone Map	Glasses	Green Bandana	Squeaky Toy
Robert Bakker	Triceratops pet	Dino Treats	Glasses	Green Bandana	Flashlight
Paul Sereno	Raptor buddy	Dino Whistle	No glasses	Red Dino Cap	Bubble Blower
Dr Ellie	Stegosaurus pal	Bone Map	Glasses	Green Bandana	Squeaky Toy
Fossil Fred	Pterodactyl helper	Dino Treats	Glasses	Red Dino Cap	Bubble Blower
Penny Paleontologist	Stegosaurus pal	Dino Treats	Glasses	Red Dino Cap	Flashlight
Sue Hendrickson	Triceratops pet	Dino Whistle	No glasses	Explorer Hat	Flashlight
Digger Debbie	Triceratops pet	Fossil Brush	No glasses	Explorer Hat	Squeaky Toy
Barnum Brown	Triceratops pet	Bone Map	No glasses	Red Dino Cap	Flashlight
Rexy Watson	Triceratops pet	Fossil Brush	No glasses	Red Dino Cap	Bubble Blower
Raptor Ryan	Pterodactyl helper	Laser Pointer	Glasses	Green Bandana	Flashlight
Daisy Dig	Triceratops pet	Laser Pointer	No glasses	Explorer Hat	Flashlight
Bones Bailey	Raptor buddy	Dino Treats	No glasses	Red Dino Cap	Flashlight
Explorer Emily	Stegosaurus pal	Fossil Brush	Glasses	Explorer Hat	Squeaky Toy
Ranger Rick	Raptor buddy	Laser Pointer	No glasses	Red Dino Cap	Flashlight
Steggy Stone	Stegosaurus pal	Laser Pointer	Glasses	Red Dino Cap	Bubble Blower
Dr Grant	T-Rex friend	Dino Treats	No glasses	Red Dino Cap	Bubble Blower
Clara Claw	Raptor buddy	Laser Pointer	No glasses	Green Bandana	Flashlight
Tracker Tom	Pterodactyl helper	Dino Whistle	No glasses	Red Dino Cap	Flashlight
Jack Horner	Raptor buddy	Dino Whistle	No glasses	Red Dino Cap	Flashlight
Sammy Scales	Pterodactyl helper	Dino Whistle	Glasses	Explorer Hat	Squeaky Toy

CLUE 1

We found dinosaur footprints in the mud. Let us count how many tracks are in the front and the back. Add them together to find the clue!

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

Diagram illustrating a 2D array structure with two rows of boxes. The top row contains 15 boxes, and the bottom row contains 12 boxes. Some boxes are highlighted in orange and contain the letter 'T'.

Top Row (15 boxes):

- Box 1: Orange, contains 'T', value 18
- Box 2: White, value 6
- Box 3: White, value 14
- Box 4: White, value 2
- Box 5: White, value 19
- Box 6: White, value 13
- Box 7: White, value 15
- Box 8: White, value 7
- Box 9: Orange, contains 'T', value 18
- Box 10: White, value 15
- Box 11: White, value 4
- Box 12: White, value 14
- Box 13: White, value 5
- Box 14: White, value 13
- Box 15: White, value 4
- Box 16: Orange, contains 'T', value 18

Bottom Row (12 boxes):

- Box 1: White, value 12
- Box 2: White, value 19
- Box 3: White, value 10
- Box 4: White, value 10
- Box 5: White, value 3
- Box 6: White, value 19
- Box 7: White, value 2
- Box 8: White, value 4
- Box 9: White, value 13
- Box 10: White, value 14
- Box 11: White, value 11
- Box 12: White, value 19
- Box 13: White, value 17

$12 + 6 = \square \rightarrow \boxed{\text{T}}$

$6 + 9 = \square \rightarrow \boxed{\text{D}}$

$9 + 8 = \square \rightarrow \boxed{\text{P}}$

$1 + 1 = \square \rightarrow \boxed{\mathbf{B}}$

$2 + 1 = \boxed{} \rightarrow \boxed{\text{Y}}$

$3 + 2 = \square \rightarrow \boxed{\mathbf{S}}$

$6 + 8 = \boxed{} \rightarrow \boxed{\text{E}}$

$5 + 5 = \square \rightarrow \boxed{\mathbf{R}}$

$3 + 3 = \square \rightarrow \boxed{\text{H}}$

$13 + 6 = \square \rightarrow \boxed{\mathbf{A}}$

$2 + 2 = \square \rightarrow \boxed{0}$

$5 + 6 = \square \rightarrow \boxed{\text{M}}$

$3 + 10 = \boxed{} \rightarrow \boxed{\text{N}}$

$$5 + 2 = \boxed{} \rightarrow \boxed{I}$$

$9 + 3 = \square \rightarrow \boxed{\text{C}}$

Scratch space:

CLUE 2 Subtraction

The thief dropped some dinosaur treats. A hungry baby raptor ate a few of them. Subtract the eaten treats to see how many are left!

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

T									T								T
14	2	19	4	18	4	12	19	1	14	3	16	19	4	9	16	14	
8	19	17	11	10	7	17	4	4	19	4							

$16 - 2 = \square \rightarrow$ T	$9 - 5 = \square \rightarrow$ S	$10 - 1 = \square \rightarrow$ N	$20 - 8 = \square \rightarrow$ P
$8 - 7 = \square \rightarrow$ C	$20 - 2 = \square \rightarrow$ U	$11 - 9 = \square \rightarrow$ H	$19 - 9 = \square \rightarrow$ G
$6 - 3 = \square \rightarrow$ D	$20 - 3 = \square \rightarrow$ A	$13 - 2 = \square \rightarrow$ R	$11 - 4 = \square \rightarrow$ L
$14 - 6 = \square \rightarrow$ W	$20 - 1 = \square \rightarrow$ E	$19 - 3 = \square \rightarrow$ O	

Scratch space:

CLUE 3

Look at these fossil boxes. They are lined up in neat rows. Skip count by twos to find the total number of fossils!

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

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

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

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

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, 30, 40, 50, 60, __, 80, 90 → **S**

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 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 → **T**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, , 35, 40 → **H**

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

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

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

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

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

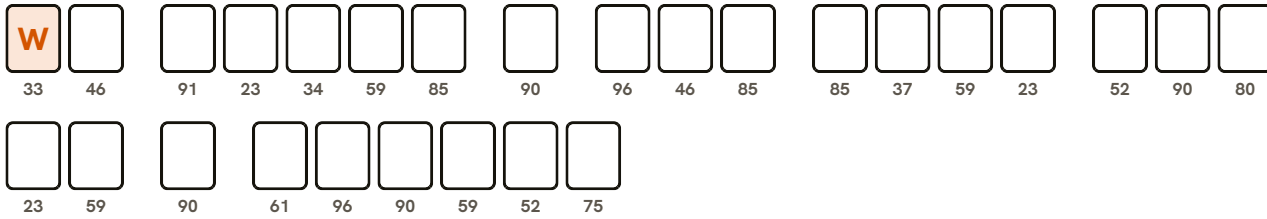


Scratch space:

CLUE 4 Place value

A park helper found a secret code on a screen. It shows tens blocks and ones blocks. Use place value to group the blocks!

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



What number has 3 tens and 3 ones? → **W**

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

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

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

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

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

What number has 6 tens and 1 one? → **B**

What number has 8 tens and 0 ones? → **P**

What number has 3 tens and 4 ones? → **U**

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

What number has 9 tens and 0 ones? → **A**

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

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

What number has 3 tens and 7 ones? → **I**

Scratch space:

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

We need twelve dinosaur teeth to complete our displays, but we only have some. How many more do we need to make twelve?

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:

$10 + \underline{\quad} = 12$

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

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

$8 + \underline{\quad} = 9$

$6 + \underline{\quad} = 16$

$8 + \underline{\quad} = 14$

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

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

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

$7 + \underline{\quad} = 18$

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

Step 2 - cross out the sentence with each answer:

1. The villain rides a giant t-rex, then shines a red laser pointer.
2. The villain dashes with a raptor, then shines a red laser pointer.
3. The villain dashes with a raptor, then blows a loud dino whistle.
4. The villain flies with a pterodactyl, then blows a loud dino whistle.
5. The villain dashes with a raptor, then tosses yummy dino treats.
6. The villain rides a giant t-rex, then tosses yummy dino treats.
7. The villain marches with a stegosaurus, then checks a secret bone map.
8. The villain stomps with a triceratops, then blows a loud dino whistle.
9. The villain marches with a stegosaurus, then sweeps the dirt with a brush.
10. The villain flies with a pterodactyl, then shines a red laser pointer.
11. The villain stomps with a triceratops, then shines a red laser pointer.
12. The villain marches with a stegosaurus, then blows a loud dino whistle.

Answer Key

The Mystery of the Golden Egg

Culprit: Bones Bailey

Raptor buddy · Dino Treats · No glasses · Red Dino Cap · Flashlight

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT DOES NOT CARRY A BONE MAP"

$12 + 6 = 18$ (T) · $6 + 9 = 15$ (D) · $9 + 8 = 17$ (P) · $1 + 1 = 2$ (B) · $2 + 1 = 3$ (Y) · $3 + 2 = 5$ (S) · $6 + 8 = 14$ (E) · $5 + 5 = 10$ (R) · $3 + 3 = 6$ (H) · $13 + 6 = 19$ (A) · $2 + 2 = 4$ (O) · $5 + 6 = 11$ (M) · $3 + 10 = 13$ (N) · $5 + 2 = 7$ (I) · $9 + 3 = 12$ (C)

Clue 2 (Subtraction): "THE SUSPECT DOES NOT WEAR GLASSES"

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

Clue 3 (Skip counting): "BRIGHT FLASHLIGHT BEAMS SCARED THE THIEF"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (B) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (M) · 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 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (L) · 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, 30, 40, 50, 60, __, 80, 90 = 70 (S) · 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 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (T) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, __, 35, 40 = 30 (H) · 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 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (G) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (I)

Clue 4 (Place value): "WE FOUND A RED DINO CAP ON A BRANCH"

What number has 3 tens and 3 ones? = 33 (W) · What number has 5 tens and 2 ones? = 52 (C) · What number has 5 tens and 9 ones? = 59 (N) · What number has 7 tens and 5 ones? = 75 (H) · What number has 8 tens and 5 ones? = 85 (D) · What number has 4 tens and 6 ones? = 46 (E) · What number has 6 tens and 1 one? = 61 (B) · What number has 8 tens and 0 ones? = 80 (P) · What number has 3 tens and 4 ones? = 34 (U) · What number has 9 tens and 1 one? = 91 (F) · What number has 9 tens and 0 ones? = 90 (A) · What number has 2 tens and 3 ones? = 23 (O) · What number has 9 tens and 6 ones? = 96 (R) · What number has 3 tens and 7 ones? = 37 (I)

Clue 5 (Missing addends): surviving statement is box 5 → Bones Bailey

$10 + \underline{\quad} = 12 = 2$ · $2 + \underline{\quad} = 5 = 3$ · $3 + \underline{\quad} = 7 = 4$ · $8 + \underline{\quad} = 9 = 1$ · $6 + \underline{\quad} = 16 = 10$ · $8 + \underline{\quad} = 14 = 6$ · $2 + \underline{\quad} = 9 = 7$ · $2 + \underline{\quad} = 14 = 12$ · $5 + \underline{\quad} = 14 = 9$ · $7 + \underline{\quad} = 18 = 11$ · $5 + \underline{\quad} = 13 = 8$