The Golden Dino Egg Mystery

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

Detective: _____ **Date:** _____

A sneaky player stole the golden T-Rex egg from the Blocky Dino Valley! We must use our block-building skills to find out who did it.

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 Dino Thief is _____

Possible suspects

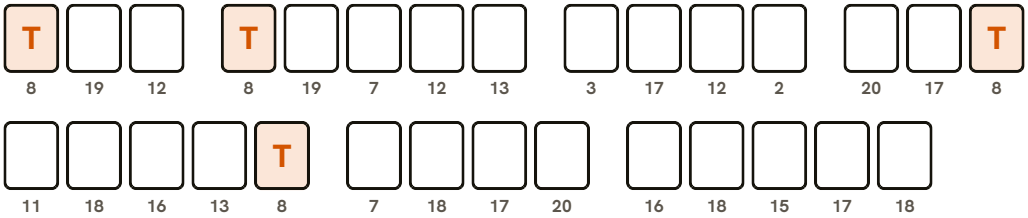
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	DINO SKILL	VALLEY CRAFTING	ITEM HELD	HAIR STYLE	DINO FEAR
Crafty	taming a rex	crafting iron armor	holds a torch	green blocky hair	roaring rex sound
DinoDan	riding a raptor	planting giant ferns	holds a torch	green blocky hair	flashing glowstone
Timmy	riding a raptor	crafting iron armor	holds a map	red blocky hair	roaring rex sound
Wu	taming a rex	digging up fossils	holds a map	blue blocky hair	splashing water
Alan	flying a pterodactyl	planting giant ferns	holds a torch	green blocky hair	roaring rex sound
Raptor	feeding a triceratops	building obsidian cages	holds a torch	red blocky hair	splashing water
Sparklez	flying a pterodactyl	brewing speed potions	holds a map	green blocky hair	flashing glowstone
Dan	flying a pterodactyl	digging up fossils	holds a torch	red blocky hair	flashing glowstone
Owen	taming a rex	digging up fossils	holds a torch	blue blocky hair	splashing water
Steve	riding a raptor	crafting iron armor	holds a map	blue blocky hair	flashing glowstone
Rexy	riding a stegosaurus	brewing speed potions	holds a map	green blocky hair	splashing water
Pixel	flying a pterodactyl	crafting iron armor	holds a map	blue blocky hair	splashing water
Stampy	flying a pterodactyl	brewing speed potions	holds a torch	red blocky hair	flashing glowstone
Claire	riding a raptor	planting giant ferns	holds a torch	blue blocky hair	roaring rex sound
Lex	flying a pterodactyl	building obsidian cages	holds a map	blue blocky hair	splashing water
Blocky	riding a stegosaurus	brewing speed potions	holds a map	blue blocky hair	splashing water
Spry	riding a stegosaurus	building obsidian cages	holds a map	blue blocky hair	splashing water
Cobb	riding a stegosaurus	building obsidian cages	holds a map	blue blocky hair	roaring rex sound
Diggy	riding a raptor	brewing speed potions	holds a map	blue blocky hair	roaring rex sound
Miner	taming a rex	planting giant ferns	holds a torch	green blocky hair	splashing water
Ian	flying a pterodactyl	planting giant ferns	holds a map	green blocky hair	roaring rex sound

CLUE 1 Addition

> Let us add up the green pixel blocks we found by the dinosaur nests to unlock the first clue.

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



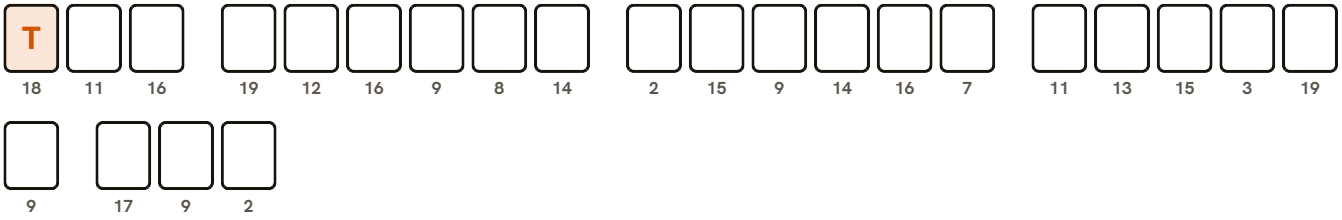
6 + 2 = ☐ → T	13 + 7 = ☐ → N	7 + 5 = ☐ → E	3 + 4 = ☐ → I
8 + 8 = ☐ → A	11 + 8 = ☐ → H	9 + 8 = ☐ → O	2 + 1 = ☐ → D
1 + 1 = ☐ → S	5 + 10 = ☐ → M	10 + 8 = ☐ → R	
8 + 3 = ☐ → C	3 + 10 = ☐ → F		

Scratch space:

CLUE 2 Subtraction

Some baby raptors ran away from the pen. Subtract the lost dinosaurs to find the next clue.

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



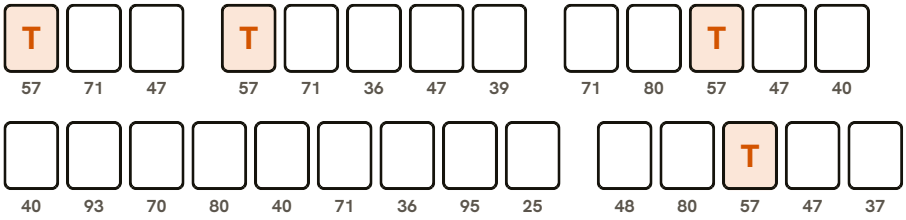
19 - 1 = ☐ → T	18 - 1 = ☐ → M	12 - 1 = ☐ → H
10 - 7 = ☐ → D	17 - 5 = ☐ → N	20 - 1 = ☐ → S
18 - 5 = ☐ → O	11 - 3 = ☐ → K	18 - 9 = ☐ → A
19 - 4 = ☐ → L	15 - 8 = ☐ → R	8 - 6 = ☐ → P
17 - 3 = ☐ → Y		19 - 3 = ☐ → E

Scratch space:

CLUE 3 Place value

Count the tens and ones in our block inventory to reveal the third clue.

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



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

What number has 9 tens and 3 ones? ☐ → P

What number has 8 tens and 0 ones? ☐ → A

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

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

What number has 4 tens and 7 ones? ☐ → E

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

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

What number has 7 tens and 1 one? ☐ → H

What number has 3 tens and 9 ones? ☐ → F

What number has 7 tens and 0 ones? ☐ → L

What number has 4 tens and 8 ones? ☐ → W

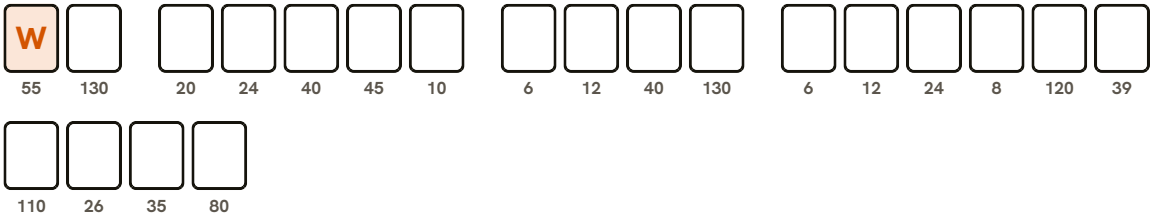
What number has 4 tens and 0 ones? ☐ → S

Scratch space:

CLUE 4 Skip counting

Follow the tracks by skip counting the T-Rex footprints to read the next clue.

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, 40, 45, 50, ___, 60, 65 ☐ → W

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 ☐ → C

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 ☐ → I

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, ___, 22, 24 ☐ → F

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 ☐ → N

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, ___, 27, 30 ☐ → O

Skip-count by 10s. Fill the blank: 10, 20, 30, ___, 50, 60 ☐ → U

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

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

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

Scratch space:

CLUE 5 Missing addends - the last clue

> We need more bricks to finish this safety wall. Find the missing number to get the last 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:

8 + ___ = 20 ☐	4 + ___ = 14 ☐	4 + ___ = 10 ☐	1 + ___ = 9 ☐
7 + ___ = 9 ☐	8 + ___ = 17 ☐	3 + ___ = 14 ☐	5 + ___ = 8 ☐	2 + ___ = 9 ☐
5 + ___ = 9 ☐	6 + ___ = 7 ☐		

Step 2 - cross out the sentence with each answer:

1. The villain rode a raptor, then built obsidian cages.
2. The villain flew a pterodactyl, then planted giant ferns.
3. The villain tamed a rex, then built obsidian cages.
4. The villain tamed a rex, then brewed speed potions.
5. The villain flew a pterodactyl, then built obsidian cages.
6. The villain tamed a rex, then dug up fossils.
7. The villain rode a stegosaurus, then dug up fossils.
8. The villain rode a stegosaurus, then crafted iron armor.
9. The villain fed a triceratops, then built obsidian cages.
10. The villain rode a stegosaurus, then brewed speed potions.
11. The villain flew a pterodactyl, then dug up fossils.
12. The villain rode a stegosaurus, then built obsidian cages.

TEACHER / PARENT

Answer Key

The Golden Dino Egg Mystery

Culprit: Lex

flying a pterodactyl · building obsidian cages · holds a map · blue blocky hair · splashing water

Trail: Start 21 → Clue 1 17 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT CRAFT IRON ARMOR"

6 + 2 = 8 (T) · 13 + 7 = 20 (N) · 7 + 5 = 12 (E) · 3 + 4 = 7 (I) · 8 + 8 = 16 (A) · 11 + 8 = 19 (H) · 9 + 8 = 17 (O) · 2 + 1 = 3 (D) · 1 + 1 = 2 (S) · 5 + 10 = 15 (M) · 10 + 8 = 18 (R) · 8 + 3 = 11 (C) · 3 + 10 = 13 (F)

Clue 2 (Subtraction): "THE SNEAKY PLAYER HOLDS A MAP"

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

Clue 3 (Place value): "THE THIEF HATES SPLASHING WATER"

What number has 5 tens and 7 ones? = 57 (T) · What number has 9 tens and 3 ones? = 93 (P) · What number has 8 tens and 0 ones? = 80 (A) · What number has 2 tens and 5 ones? = 25 (G) · What number has 3 tens and 7 ones? = 37 (R) · What number has 4 tens and 7 ones? = 47 (E) · What number has 3 tens and 6 ones? = 36 (I) · What number has 9 tens and 5 ones? = 95 (N) · What number has 7 tens and 1 one? = 71 (H) · What number has 3 tens and 9 ones? = 39 (F) · What number has 7 tens and 0 ones? = 70 (L) · What number has 4 tens and 8 ones? = 48 (W) · What number has 4 tens and 0 ones? = 40 (S)

Clue 4 (Skip counting): "WE FOUND BLUE BLOCKY HAIR"

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

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

8 + ___ = 20 = 12 · 4 + ___ = 14 = 10 · 4 + ___ = 10 = 6 · 1 + ___ = 9 = 8 · 7 + ___ = 9 = 2 · 8 + ___ = 17 = 9 · 3 + ___ = 14 = 11 · 5 + ___ = 8 = 3 · 2 + ___ = 9 = 7 · 5 + ___ = 9 = 4 · 6 + ___ = 7 = 1