



The Great Dino Valley Cup Mystery

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

Detective: _____ Date: _____

The golden championship trophy is missing! Someone took it right before the final game. We must search the field and find the dinosaur who took 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 sneaky striker is _____

Possible suspects

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

NAME	SOCCER MOVE	SPECIAL GEAR	KICKING STYLE	HEAD FEATURE	FEAR
Ronaldo Rex	Head Butt	Golden Gloves	Right Footed	Green Spikes	Loud Whistles
Kepa Triceratops	Tail Kick	Golden Gloves	Left Footed	Blue Crest	Bright Lights
Bellingham Rex	Raptor Dash	Fancy Visor	Right Footed	Orange Scales	Loud Whistles
Marta Dino	Wing Save	Neon Jersey	Left Footed	Blue Crest	Bright Lights
Dembele Dino	Tail Kick	Sparkly Cape	Left Footed	Blue Crest	Loud Whistles
Rooney Raptor	Mega Stomp	Muddy Cleats	Left Footed	Blue Crest	Bright Lights
Neymar Raptor	Wing Save	Neon Jersey	Left Footed	Green Spikes	Loud Whistles
Harry Dino	Head Butt	Muddy Cleats	Right Footed	Green Spikes	Bright Lights
Foden Dino	Mega Stomp	Fancy Visor	Left Footed	Orange Scales	Bright Lights
Pele Saurus	Tail Kick	Fancy Visor	Right Footed	Blue Crest	Bright Lights
Stego Son	Head Butt	Sparkly Cape	Right Footed	Blue Crest	Squeaky Toys
Beckham Bronto	Head Butt	Golden Gloves	Left Footed	Orange Scales	Squeaky Toys
Rapinoe Rex	Head Butt	Muddy Cleats	Left Footed	Blue Crest	Squeaky Toys
Diaz Diplodocus	Raptor Dash	Fancy Visor	Right Footed	Blue Crest	Squeaky Toys
Zlatan Igua	Wing Save	Fancy Visor	Left Footed	Green Spikes	Squeaky Toys
Alex Morgan Saurus	Mega Stomp	Fancy Visor	Right Footed	Orange Scales	Squeaky Toys
Mbappe Pterodactyl	Raptor Dash	Golden Gloves	Left Footed	Orange Scales	Bright Lights
Saka Spino	Tail Kick	Sparkly Cape	Left Footed	Blue Crest	Bright Lights
Alisson Ankylosaur	Raptor Dash	Golden Gloves	Left Footed	Blue Crest	Bright Lights
Salah Saurus	Mega Stomp	Muddy Cleats	Right Footed	Green Spikes	Squeaky Toys
Rexy Messi	Mega Stomp	Fancy Visor	Left Footed	Orange Scales	Loud Whistles

CLUE 1 Addition

Coach Rex counts the soccer balls on the grass. He adds the red balls and green balls to find the total.

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

T								T											
5	7	20	3	16	20	8	4	10	5	7	14	20	13	17	6	20	3		
		T																	
16	6	5	2	20	8	11	8	3	9	8	11	4	15	10	18	8	9	20	

$1 + 4 = \square \rightarrow \text{T}$	$8 + 3 = \square \rightarrow \text{R}$	$4 + 4 = \square \rightarrow \text{A}$	$3 + 3 = \square \rightarrow \text{O}$
$12 + 4 = \square \rightarrow \text{N}$	$3 + 7 = \square \rightarrow \text{Y}$	$2 + 5 = \square \rightarrow \text{H}$	$1 + 3 = \square \rightarrow \text{K}$
$2 + 1 = \square \rightarrow \text{S}$	$11 + 7 = \square \rightarrow \text{C}$	$9 + 5 = \square \rightarrow \text{I}$	
$4 + 11 = \square \rightarrow \text{L}$	$12 + 5 = \square \rightarrow \text{D}$	$1 + 1 = \square \rightarrow \text{W}$	
$10 + 3 = \square \rightarrow \text{F}$	$7 + 2 = \square \rightarrow \text{P}$	$6 + 14 = \square \rightarrow \text{E}$	

Scratch space:

CLUE 2 Place value

Look at the big team scoreboard. The score has one ten and four ones. What number is that?

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

T			T											T		
49	68	53	49	68	14	53	56	28	14	37	28	53	94	49	68	53
						T		T								T
77	44	63	63	50	14	49	68	49	68	53	14	97	63	53	56	49
			T													
56	51	51	49													

What number has 4 tens and 9 ones?

→ T

What number has 5 tens and 0 ones?

→ W

What number has 4 tens and 4 ones?

→ A

What number has 6 tens and 3 ones?

→ L

What number has 2 tens and 8 ones?

→ K

What number has 9 tens and 7 ones?

→ R

What number has 9 tens and 4 ones?

→ D

What number has 5 tens and 6 ones?

→ F

What number has 1 ten and 4 ones?

→ I

What number has 3 tens and 7 ones?

→ C

What number has 6 tens and 8 ones?

→ H

What number has 5 tens and 3 ones?

→ E

What number has 5 tens and 1 one?

→ O

What number has 7 tens and 7 ones?

→ B

Scratch space:

CLUE 3

Subtraction

A player had ten orange cones. He lost some cones. Let us subtract 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		
2	7	17	2	7	5	17	9	7	5	10	9	18	12	6	2	7	17
15	18	5	1	7	2	4	5	1	7	2	8						

$4 - 2 = \square \rightarrow \text{T}$

$14 - 9 = \square \rightarrow \text{I}$

$16 - 1 = \square \rightarrow \text{B}$

$13 - 5 = \square \rightarrow \text{S}$

$12 - 6 = \square \rightarrow \text{M}$

$16 - 7 = \square \rightarrow \text{F}$

$6 - 5 = \square \rightarrow \text{G}$

$17 - 5 = \square \rightarrow \text{O}$

$13 - 9 = \square \rightarrow \text{L}$

$20 - 3 = \square \rightarrow \text{E}$

$15 - 5 = \square \rightarrow \text{D}$

$19 - 1 = \square \rightarrow \text{R}$

$12 - 5 = \square \rightarrow \text{H}$

Scratch space:

CLUE 4

We see muddy dino footprints in groups of two. Count by twos to find the total footprints.

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

14 25 45 15 42 40 33 21 42 55 14 25 40 26 40

55 25 30 20 36 100 33 120 45 12 22 45 55 14 42 20 30 14

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

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **N**

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

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

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

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

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

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

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

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **P**

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

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

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

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

Scratch space:

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

The gear rack holds eight shin guards. We only see five. How many more do we need to make eight?

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:

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

$2 + \underline{\quad} = 4$

$3 + \underline{\quad} = 11$

$6 + \underline{\quad} = 7$

$7 + \underline{\quad} = 14$

$9 + \underline{\quad} = 13$

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

$1 + \underline{\quad} = 4$

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

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

$1 + \underline{\quad} = 12$

Step 2 - cross out the sentence with each answer:

1. The villain did a massive tail kick, then tipped a fancy visor.
2. The villain did a massive tail kick, then showed off some golden gloves.
3. The villain leaped for a wing save, then flew past with a sparkly cape.
4. The villain made a powerful head butt, then left a trail of muddy cleats.
5. The villain leaped for a wing save, then flashed a bright neon jersey.
6. The villain shook the ground with a mega stomp, then left a trail of muddy cleats.
7. The villain made a powerful head butt, then showed off some golden gloves.
8. The villain zoomed by with a raptor dash, then showed off some golden gloves.
9. The villain zoomed by with a raptor dash, then flew past with a sparkly cape.
10. The villain shook the ground with a mega stomp, then flew past with a sparkly cape.
11. The villain leaped for a wing save, then left a trail of muddy cleats.
12. The villain made a powerful head butt, then tipped a fancy visor.

Answer Key

The Great Dino Valley Cup Mystery

Culprit: Marta Dino

Wing Save · Neon Jersey · Left Footed · Blue Crest · Bright Lights

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY THIEF DOES NOT WEAR A SPARKLY CAPE"

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

Clue 2 (Place value): "THE THIEF KICKED THE BALL WITH THEIR LEFT FOOT"

What number has 4 tens and 9 ones? = 49 (T) · What number has 5 tens and 0 ones? = 50 (W) · What number has 4 tens and 4 ones? = 44 (A) · What number has 6 tens and 3 ones? = 63 (L) · What number has 2 tens and 8 ones? = 28 (K) · What number has 9 tens and 7 ones? = 97 (R) · What number has 9 tens and 4 ones? = 94 (D) · What number has 5 tens and 6 ones? = 56 (F) · What number has 1 ten and 4 ones? = 14 (I) · What number has 3 tens and 7 ones? = 37 (C) · What number has 6 tens and 8 ones? = 68 (H) · What number has 5 tens and 3 ones? = 53 (E) · What number has 5 tens and 1 one? = 51 (O) · What number has 7 tens and 7 ones? = 77 (B)

Clue 3 (Subtraction): "THE THIEF HID FROM THE BRIGHT LIGHTS"

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

Clue 4 (Skip counting): "THE GOALPOST HAD A SHINY BLUE CREST ON IT"

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

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

$4 + \underline{\quad} = 10 = 6$ · $2 + \underline{\quad} = 4 = 2$ · $3 + \underline{\quad} = 11 = 8$ · $6 + \underline{\quad} = 7 = 1$ · $7 + \underline{\quad} = 14 = 7$ · $9 + \underline{\quad} = 13 = 4$ · $7 + \underline{\quad} = 16 = 9$ · $1 + \underline{\quad} = 4 = 3$ · $2 + \underline{\quad} = 14 = 12$ · $9 + \underline{\quad} = 19 = 10$ · $1 + \underline{\quad} = 12 = 11$