



The Great Cheetah Gym Mystery

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

Detective: _____ Date: _____

Oh no! The golden trophy is missing from the gymnastics gym! The Cheetah Bandit ran off with it. Can you help us find 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 Cheetah Bandit is _____

Possible suspects

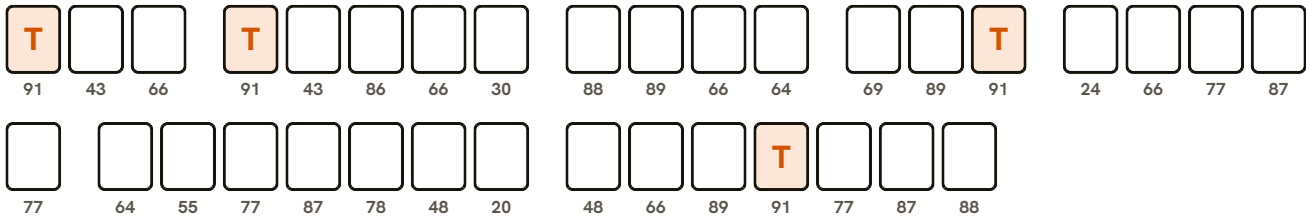
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	GYMNASTICS MOVE	SPECIAL GEAR	WRISTBAND SIDE	GYM HAIRSTYLE	CHEETAH DISTRACTION
Yul	cartwheel bounce	spotted ribbon	left wristband	braided pigtails	catnip mouse
Shawn	cartwheel bounce	speed shoes	left wristband	high ponytail	shiny trophy
Konnor	beam balance	spotted ribbon	right wristband	high ponytail	shiny trophy
Olivia	floor somersault	speed shoes	right wristband	high ponytail	catnip mouse
Fred	high bar swing	grip chalk	right wristband	braided pigtails	catnip mouse
Simone	high bar swing	sparkly leotard	left wristband	braided pigtails	catnip mouse
Shannon	vault handstand	golden whistle	right wristband	high ponytail	shiny trophy
Skye	high bar swing	speed shoes	left wristband	messy bun	catnip mouse
Suni	vault handstand	grip chalk	left wristband	braided pigtails	laser pointer
Laurie	floor somersault	spotted ribbon	left wristband	braided pigtails	catnip mouse
Max	cartwheel bounce	grip chalk	right wristband	high ponytail	shiny trophy
Jordan	high bar swing	golden whistle	left wristband	braided pigtails	catnip mouse
Jade	beam balance	spotted ribbon	right wristband	messy bun	shiny trophy
Kayla	cartwheel bounce	sparkly leotard	left wristband	messy bun	laser pointer
Aly	high bar swing	sparkly leotard	right wristband	high ponytail	shiny trophy
Nastia	vault handstand	spotted ribbon	right wristband	braided pigtails	catnip mouse
Leanne	beam balance	golden whistle	right wristband	braided pigtails	shiny trophy
Nile	floor somersault	spotted ribbon	right wristband	messy bun	catnip mouse
Brody	cartwheel bounce	sparkly leotard	right wristband	messy bun	shiny trophy
Dominique	vault handstand	grip chalk	left wristband	braided pigtails	catnip mouse
Gabby	high bar swing	golden whistle	right wristband	high ponytail	shiny trophy

CLUE 1 Place value

The score screen is partly broken. It only shows tens and ones blocks. Count the blocks to find the first clue.

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



What number has 9 tens and 1 one?

→ **T**

What number has 4 tens and 8 ones?

→ **L**

What number has 6 tens and 9 ones?

→ **N**

What number has 6 tens and 6 ones?

→ **E**

What number has 7 tens and 8 ones?

→ **K**

What number has 6 tens and 4 ones?

→ **S**

What number has 8 tens and 8 ones?

→ **D**

What number has 5 tens and 5 ones?

→ **P**

What number has 4 tens and 3 ones?

→ **H**

What number has 2 tens and 4 ones?

→ **W**

What number has 8 tens and 9 ones?

→ **O**

What number has 8 tens and 6 ones?

→ **I**

What number has 7 tens and 7 ones?

→ **A**

What number has 3 tens and 0 ones?

→ **F**

What number has 2 tens and 0 ones?

→ **Y**

What number has 8 tens and 7 ones?

→ **R**

Scratch space:

CLUE 2 Addition

Coach needs to count the soft gym mats. Add the green mats and the blue mats to see what we found.

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

T							T										
19	4	16	15	11	12	19	6	4	16	14	5	16	12	14	15	12	

				T					T					
14	17	8	4	19	5	14	17	15	19	20	12	11	10	

$8 + 11 = \square \rightarrow$ T	$6 + 6 = \square \rightarrow$ A	$4 + 1 = \square \rightarrow$ W	$2 + 4 = \square \rightarrow$ C
$3 + 1 = \square \rightarrow$ H	$7 + 13 = \square \rightarrow$ B	$8 + 7 = \square \rightarrow$ S	$3 + 8 = \square \rightarrow$ N
$12 + 4 = \square \rightarrow$ E	$3 + 7 = \square \rightarrow$ D	$9 + 5 = \square \rightarrow$ R	$3 + 5 = \square \rightarrow$ G
$10 + 7 = \square \rightarrow$ I			

Scratch space:

CLUE 3

Subtraction

We had a box of shiny star stickers. Some stickers fell out of the box. Subtract to find how many are left.

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

T			T										T					
8	13	18	8	13	12	18	14	2	12	15	15	17	8	9	4	14	9	5
10	17	13	12	7	3	T												
						8	5	9	4	13	3							

$17 - 9 = \square \rightarrow \boxed{\text{T}}$

$16 - 2 = \square \rightarrow \boxed{\text{F}}$

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

$19 - 1 = \square \rightarrow \boxed{\text{E}}$

$7 - 3 = \square \rightarrow \boxed{\text{P}}$

$8 - 1 = \square \rightarrow \boxed{\text{N}}$

$17 - 8 = \square \rightarrow \boxed{\text{O}}$

$15 - 2 = \square \rightarrow \boxed{\text{H}}$

$9 - 6 = \square \rightarrow \boxed{\text{Y}}$

$16 - 1 = \square \rightarrow \boxed{\text{L}}$

$17 - 5 = \square \rightarrow \boxed{\text{I}}$

$19 - 9 = \square \rightarrow \boxed{\text{A}}$

$9 - 4 = \square \rightarrow \boxed{\text{R}}$

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

Scratch space:

CLUE 4 Skip counting

Look at the cheetah shoes on the rack. They are in pairs of two. Skip count by twos to get the next clue.

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

W														
14	39	130	36	140	10	30	6	12	110	28	130	28	36	70

6	110	25	6	18	36	10	24	35	12	110	90

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **N**

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

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

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

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

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

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **U**

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

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

Scratch space:

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

The team wants ten gold trophies. They only have six so far. Find the missing number to unlock 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:

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

$3 + \underline{\quad} = 8$

$3 + \underline{\quad} = 14$

$4 + \underline{\quad} = 7$

$10 + \underline{\quad} = 11$

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

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

$8 + \underline{\quad} = 12$

$6 + \underline{\quad} = 12$

$8 + \underline{\quad} = 15$

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

Step 2 - cross out the sentence with each answer:

1. The villain swings on the high bar, then twirls a spotted ribbon.
2. The villain swings on the high bar, then dashes off in speed shoes.
3. The villain does a floor somersault, then twirls a spotted ribbon.
4. The villain does a cartwheel bounce, then twirls a spotted ribbon.
5. The villain balances on the beam, then twirls a spotted ribbon.
6. The villain does a floor somersault, then dashes off in speed shoes.
7. The villain springs into a vault handstand, then shines in a sparkly leotard.
8. The villain does a cartwheel bounce, then leaves a mark of grip chalk.
9. The villain does a cartwheel bounce, then dashes off in speed shoes.
10. The villain springs into a vault handstand, then blows a golden whistle.
11. The villain swings on the high bar, then blows a golden whistle.
12. The villain springs into a vault handstand, then leaves a mark of grip chalk.

Answer Key

The Great Cheetah Gym Mystery

Culprit: Max

cartwheel bounce · grip chalk · right wristband · high ponytail · shiny trophy

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT WEAR A SPARKLY LEOTARD"

What number has 9 tens and 1 one? = 91 (T) · What number has 4 tens and 8 ones? = 48 (L) · What number has 6 tens and 9 ones? = 69 (N) · What number has 6 tens and 6 ones? = 66 (E) · What number has 7 tens and 8 ones? = 78 (K) · What number has 6 tens and 4 ones? = 64 (S) · What number has 8 tens and 8 ones? = 88 (D) · What number has 5 tens and 5 ones? = 55 (P) · What number has 4 tens and 3 ones? = 43 (H) · What number has 2 tens and 4 ones? = 24 (W) · What number has 8 tens and 9 ones? = 89 (O) · What number has 8 tens and 6 ones? = 86 (I) · What number has 7 tens and 7 ones? = 77 (A) · What number has 3 tens and 0 ones? = 30 (F) · What number has 2 tens and 0 ones? = 20 (Y) · What number has 8 tens and 7 ones? = 87 (R)

Clue 2 (Addition): "THE SNATCHER WEARS A RIGHT WRISTBAND"

$8 + 11 = 19$ (T) · $6 + 6 = 12$ (A) · $4 + 1 = 5$ (W) · $2 + 4 = 6$ (C) · $3 + 1 = 4$ (H) · $7 + 13 = 20$ (B) · $8 + 7 = 15$ (S) · $3 + 8 = 11$ (N) · $12 + 4 = 16$ (E) · $3 + 7 = 10$ (D) · $9 + 5 = 14$ (R) · $3 + 5 = 8$ (G) · $10 + 7 = 17$ (I)

Clue 3 (Subtraction): "THE THIEF WILL STOP FOR A SHINY TROPHY"

$17 - 9 = 8$ (T) · $16 - 2 = 14$ (F) · $6 - 4 = 2$ (W) · $19 - 1 = 18$ (E) · $7 - 3 = 4$ (P) · $8 - 1 = 7$ (N) · $17 - 8 = 9$ (O) · $15 - 2 = 13$ (H) · $9 - 6 = 3$ (Y) · $16 - 1 = 15$ (L) · $17 - 5 = 12$ (I) · $19 - 9 = 10$ (A) · $9 - 4 = 5$ (R) · $19 - 2 = 17$ (S)

Clue 4 (Skip counting): "WE FOUND HAIR FROM A HIGH PONYTAIL"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (W) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 = 12 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 = 70 (M) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 = 18 (P) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (E) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, __, 26, 28 = 24 (Y) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, __, 35, 40 = 30 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (U) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (R) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (G)

Clue 5 (Missing addends): surviving statement is box 8 → Max

$9 + \underline{\quad} = 19 = 10$ · $3 + \underline{\quad} = 8 = 5$ · $3 + \underline{\quad} = 14 = 11$ · $4 + \underline{\quad} = 7 = 3$ · $10 + \underline{\quad} = 11 = 1$ · $5 + \underline{\quad} = 14 = 9$ · $2 + \underline{\quad} = 4 = 2$ · $8 + \underline{\quad} = 12 = 4$ · $6 + \underline{\quad} = 12 = 6$ · $8 + \underline{\quad} = 15 = 7$ · $4 + \underline{\quad} = 16 = 12$