



The Case of the Missing Golden Ball

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

Detective: _____ Date: _____

Oh no! The shiny Golden Ball trophy has vanished from the coach's office right before the big game. A Sneaky Striker took it! Coach needs your help to find the trophy before the final whistle blows. Follow the soccer clues!

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	SIGNATURE MOVE	LUCKY GEAR	STRONG FOOT	HEADBAND	WEAKNESS
Bruno	Bicycle Kick	Striped Wristbands	Left-footed	Green Headband	Loud Whistles
Jack	Speed Dribble	Silver Shin Guards	Right-footed	Green Headband	Bright Sun
Luis	Rainbow Flick	Golden Cleats	Left-footed	Blue Headband	Bright Sun
Harry Kane	Speed Dribble	Striped Wristbands	Left-footed	Blue Headband	Muddy Grass
Jude	Rainbow Flick	Striped Wristbands	Right-footed	Red Headband	Loud Whistles
Raheem	Bicycle Kick	Striped Wristbands	Left-footed	Green Headband	Bright Sun
Kevin	Rocket Shot	Striped Wristbands	Left-footed	Green Headband	Loud Whistles
Sonny	Speed Dribble	Silver Shin Guards	Left-footed	Red Headband	Loud Whistles
Erling	Rocket Shot	Striped Wristbands	Left-footed	Red Headband	Loud Whistles
Megan	Power Header	Neon Laces	Left-footed	Green Headband	Loud Whistles
Bukayo	Bicycle Kick	Neon Laces	Right-footed	Green Headband	Bright Sun
Mo Salah	Bicycle Kick	Stars Socks	Left-footed	Green Headband	Bright Sun
Marcus	Speed Dribble	Silver Shin Guards	Right-footed	Blue Headband	Bright Sun
Alex Morgan	Speed Dribble	Striped Wristbands	Left-footed	Green Headband	Bright Sun
Neymar	Bicycle Kick	Silver Shin Guards	Left-footed	Green Headband	Bright Sun
Sadio	Speed Dribble	Silver Shin Guards	Left-footed	Green Headband	Bright Sun
Luka	Rocket Shot	Neon Laces	Left-footed	Blue Headband	Muddy Grass
Sam Kerr	Speed Dribble	Golden Cleats	Left-footed	Green Headband	Bright Sun
Kylian	Rocket Shot	Striped Wristbands	Right-footed	Green Headband	Muddy Grass
Virgil	Bicycle Kick	Neon Laces	Left-footed	Blue Headband	Bright Sun
Antoine	Power Header	Striped Wristbands	Right-footed	Blue Headband	Muddy Grass

CLUE 1 Addition

The team counts the orange cones. Add the small cones to the big cones to find the clue.

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

T																T
85	59	65	83	51	46	46	48	51	63	95	70	65	32	63	70	85

					T						
80	65	48	93	32	85	93	51	31	65	95	

				T					
80	93	51	32	85	25	48	63	95	32

$29 + 56 = \square \rightarrow \text{T}$

$53 + 30 = \square \rightarrow \text{V}$

$13 + 12 = \square \rightarrow \text{B}$

$39 + 31 = \square \rightarrow \text{O}$

$34 + 46 = \square \rightarrow \text{W}$

$45 + 48 = \square \rightarrow \text{R}$

$25 + 21 = \square \rightarrow \text{L}$

$43 + 20 = \square \rightarrow \text{N}$

$24 + 27 = \square \rightarrow \text{I}$

$39 + 26 = \square \rightarrow \text{E}$

$24 + 24 = \square \rightarrow \text{A}$

$13 + 19 = \square \rightarrow \text{S}$

$41 + 54 = \square \rightarrow \text{D}$

$34 + 25 = \square \rightarrow \text{H}$

$19 + 12 = \square \rightarrow \text{P}$

Scratch space:

CLUE 2

Subtraction

Some water bottles are missing from the cooler. Subtract the empty ones to see what is left.

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

T																			
68	35	19	47	65	60	60	17	65	57	42	65	52	42	78	29	57	60	87	
		T		T								T						T	
75	65	68	35	68	35	19	65	16	60	19	36	68	36	29	29	68			

$89 - 21 = \square \rightarrow \boxed{\text{T}}$

$60 - 31 = \square \rightarrow \boxed{\text{O}}$

$45 - 26 = \square \rightarrow \boxed{\text{E}}$

$67 - 7 = \square \rightarrow \boxed{\text{L}}$

$63 - 28 = \square \rightarrow \boxed{\text{H}}$

$90 - 25 = \square \rightarrow \boxed{\text{I}}$

$100 - 25 = \square \rightarrow \boxed{\text{W}}$

$55 - 39 = \square \rightarrow \boxed{\text{R}}$

$107 - 29 = \square \rightarrow \boxed{\text{S}}$

$101 - 14 = \square \rightarrow \boxed{\text{Y}}$

$69 - 17 = \square \rightarrow \boxed{\text{C}}$

$87 - 40 = \square \rightarrow \boxed{\text{V}}$

$74 - 17 = \square \rightarrow \boxed{\text{N}}$

$47 - 30 = \square \rightarrow \boxed{\text{A}}$

$58 - 22 = \square \rightarrow \boxed{\text{F}}$

$66 - 24 = \square \rightarrow \boxed{\text{K}}$

Scratch space:

CLUE 3 Place value

The stadium scoreboard flashes bright numbers. Look at the tens place to find the secret digit.

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

T																		
44	96	94	80	36	16	16	47	36	34	49	89	51	36	34	44	49	36	34

T											
44	96	94	64	21	36	11	96	44	49	51	34

What number has 4 tens and 4 ones? → **T**

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

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

What number has 4 tens and 7 ones? → **A**

What number has 8 tens and 9 ones? → **Q**

What number has 9 tens and 4 ones? → **E**

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

What number has 2 tens and 1 one? → **R**

What number has 5 tens and 1 one? → **U**

What number has 4 tens and 9 ones? → **S**

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

What number has 1 ten and 1 one? → **G**

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

What number has 1 ten and 6 ones? → **L**

Scratch space:

CLUE 4 Skip counting

We see lines of soccer balls on the grass. Skip count by fives to reach the end of the field.

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

W														
21	70	27	15	130	40	8	39	45	18	16	20	140	15	27
36	16	70	70	40	27	39	110	16	20	60				

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

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **D**

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

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

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

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

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

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 → **N**

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

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

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

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

Scratch space:

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

We need twelve goals to win. Find the missing number of goals we still need to score.

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:

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

$3 + \underline{\quad} = 4$

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

$2 + \underline{\quad} = 12$

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

$8 + \underline{\quad} = 17$

$2 + \underline{\quad} = 7$

$9 + \underline{\quad} = 21$

$10 + \underline{\quad} = 16$

$9 + \underline{\quad} = 11$

$9 + \underline{\quad} = 20$

Step 2 - cross out the sentence with each answer:

1. The villain does a speed dribble, then shines their golden cleats.
2. The villain flips a rainbow flick, then taps their silver shin guards.
3. The villain does a speed dribble, then taps their silver shin guards.
4. The villain lands a power header, then runs fast in neon laces.
5. The villain fires a rocket shot, then pulls up their stars socks.
6. The villain fires a rocket shot, then taps their silver shin guards.
7. The villain performs a bicycle kick, then pulls up their stars socks.
8. The villain performs a bicycle kick, then taps their silver shin guards.
9. The villain flips a rainbow flick, then pulls up their stars socks.
10. The villain lands a power header, then adjusts their striped wristbands.
11. The villain performs a bicycle kick, then runs fast in neon laces.
12. The villain lands a power header, then taps their silver shin guards.

Answer Key

The Case of the Missing Golden Ball

Culprit: Mo Salah

Bicycle Kick · Stars Socks · Left-footed · Green Headband · Bright Sun

Trail: Start 21 → Clue 1 12 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT WEAR STRIPED WRISTBANDS"

$29 + 56 = 85$ (T) · $53 + 30 = 83$ (V) · $13 + 12 = 25$ (B) · $39 + 31 = 70$ (O) · $34 + 46 = 80$ (W) · $45 + 48 = 93$ (R) · $25 + 21 = 46$ (L) · $43 + 20 = 63$ (N) · $24 + 27 = 51$ (I) · $39 + 26 = 65$ (E) · $24 + 24 = 48$ (A) · $13 + 19 = 32$ (S) · $41 + 54 = 95$ (D) · $34 + 25 = 59$ (H) · $19 + 12 = 31$ (P)

Clue 2 (Subtraction): "THE VILLAIN KICKS ONLY WITH THEIR LEFT FOOT"

$89 - 21 = 68$ (T) · $60 - 31 = 29$ (O) · $45 - 26 = 19$ (E) · $67 - 7 = 60$ (L) · $63 - 28 = 35$ (H) · $90 - 25 = 65$ (I) · $100 - 25 = 75$ (W) · $55 - 39 = 16$ (R) · $107 - 29 = 78$ (S) · $101 - 14 = 87$ (Y) · $69 - 17 = 52$ (C) · $87 - 40 = 47$ (V) · $74 - 17 = 57$ (N) · $47 - 30 = 17$ (A) · $58 - 22 = 36$ (F) · $66 - 24 = 42$ (K)

Clue 3 (Place value): "THE VILLAIN SQUINTS IN THE BRIGHT SUN"

What number has 4 tens and 4 ones? = 44 (T) · What number has 3 tens and 4 ones? = 34 (N) · What number has 8 tens and 0 ones? = 80 (V) · What number has 4 tens and 7 ones? = 47 (A) · What number has 8 tens and 9 ones? = 89 (Q) · What number has 9 tens and 4 ones? = 94 (E) · What number has 6 tens and 4 ones? = 64 (B) · What number has 2 tens and 1 one? = 21 (R) · What number has 5 tens and 1 one? = 51 (U) · What number has 4 tens and 9 ones? = 49 (S) · What number has 3 tens and 6 ones? = 36 (I) · What number has 1 ten and 1 one? = 11 (G) · What number has 9 tens and 6 ones? = 96 (H) · What number has 1 ten and 6 ones? = 16 (L)

Clue 4 (Skip counting): "WE FOUND A STRIP OF GREEN FABRIC"

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

Clue 5 (Missing addends): surviving statement is box 7 → Mo Salah

$2 + \underline{\quad} = 5 = 3$ · $3 + \underline{\quad} = 4 = 1$ · $3 + \underline{\quad} = 11 = 8$ · $2 + \underline{\quad} = 12 = 10$ · $9 + \underline{\quad} = 13 = 4$ · $8 + \underline{\quad} = 17 = 9$ · $2 + \underline{\quad} = 7 = 5$ · $9 + \underline{\quad} = 21 = 12$ · $10 + \underline{\quad} = 16 = 6$ · $9 + \underline{\quad} = 11 = 2$ · $9 + \underline{\quad} = 20 = 11$