



The Great Hoop Heist

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

Detective: _____ **Date:** _____

Oh no! The Golden Whistle is gone from the arena. The big game is tonight! A sneaky Sneaker Snatcher took it. We need your help to find them before tip-off!

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 Sneaker Snatcher 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	SPECIAL GEAR	SHOOTING HAND	HEAD ACCESSORY	SILLY WEAKNESS
Giannis	spins ball on nose	glow headband	uses right hand	orange headband	loves eating popcorn
Klay	spins ball on nose	super spring socks	uses right hand	orange headband	scared of loud whistles
Muggsy	dribbles three balls	super spring socks	uses left hand	orange headband	scared of loud whistles
Kyrie	spins ball on nose	squeaky shoes	uses right hand	blue afro	trips on loose laces
Zion	dunks from half court	gold sneakers	uses right hand	green cap	scared of loud whistles
Durant	spins ball on nose	glow headband	uses left hand	orange headband	loves eating popcorn
Joker	spins ball on nose	squeaky shoes	uses right hand	green cap	scared of loud whistles
Melo	leaps over hoops	gold sneakers	uses right hand	orange headband	scared of loud whistles
Ja	dribbles three balls	squeaky shoes	uses right hand	green cap	trips on loose laces
Reggie	shoots backwards	squeaky shoes	uses right hand	green cap	scared of loud whistles
Yao	dunks from half court	glow headband	uses right hand	orange headband	loves eating popcorn
Dirk	leaps over hoops	glow headband	uses right hand	blue afro	scared of loud whistles
Ad	spins ball on nose	laser goggles	uses right hand	orange headband	loves eating popcorn
Steph	dribbles three balls	glow headband	uses right hand	green cap	loves eating popcorn
Luka	leaps over hoops	gold sneakers	uses right hand	orange headband	loves eating popcorn
Kawhi	leaps over hoops	laser goggles	uses left hand	blue afro	trips on loose laces
Russ	spins ball on nose	squeaky shoes	uses left hand	orange headband	scared of loud whistles
LeBron	leaps over hoops	super spring socks	uses left hand	orange headband	trips on loose laces
Dame	dribbles three balls	super spring socks	uses right hand	orange headband	loves eating popcorn
Kobe	shoots backwards	glow headband	uses left hand	orange headband	scared of loud whistles
Jordan	dribbles three balls	squeaky shoes	uses left hand	blue afro	scared of loud whistles

CLUE 1 Addition

Coach needs to count all the basketballs in the big bins. Add the red balls and the blue balls together to find the total. Your math reveals a clue!

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

T																			
70	38	90	48	28	90	54	23	22	49	31	33	33	54	31	28	38	54	48	
28	44	48	64	53	90	79	48	53	79	31	28	89	48	44	83	23	48		

$48 + 22 = \square \rightarrow \text{T}$	$11 + 12 = \square \rightarrow \text{K}$	$30 + 24 = \square \rightarrow \text{A}$
$20 + 13 = \square \rightarrow \text{L}$	$35 + 29 = \square \rightarrow \text{U}$	$47 + 32 = \square \rightarrow \text{R}$
$28 + 20 = \square \rightarrow \text{S}$	$42 + 48 = \square \rightarrow \text{E}$	$19 + 9 = \square \rightarrow \text{N}$
$30 + 14 = \square \rightarrow \text{O}$	$62 + 27 = \square \rightarrow \text{G}$	$15 + 16 = \square \rightarrow \text{I}$
$21 + 32 = \square \rightarrow \text{P}$	$20 + 18 = \square \rightarrow \text{H}$	$27 + 56 = \square \rightarrow \text{C}$
$35 + 14 = \square \rightarrow \text{V}$	$7 + 15 = \square \rightarrow \text{Y}$	

Scratch space:

CLUE 2
Subtraction

Some water bottles went missing from the bench. Subtract the leaking bottles from the starting pile to see what is left. Your work drops a clue!

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

T													T				
53	88	17	82	56	17	15	65	17	58	82	56	15	53	86	88	17	58

								T				
79	82	17	82	58	38	50	88	53	88	15	56	57

89 - 36 = → T	85 - 28 = → D	85 - 27 = → R
36 - 19 = → E	122 - 40 = → S	72 - 7 = → K
53 - 38 = → A	78 - 22 = → N	66 - 16 = → G
99 - 11 = → H	54 - 16 = → I	118 - 32 = → C
89 - 10 = → U		

Scratch space:

CLUE 3 Place value

The big scoreboard is acting funny and only shows digits in the tens and ones spots. Figure out the place value to fix the screen and unlock this clue.

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

T														
84	61	94	81	67	32	32	49	67	63	32	55	81	94	60
		T												
94	49	84	67	63	86	24	55	24	42	55	40	63		

What number has 8 tens and 4 ones? → **T**

What number has 5 tens and 5 ones? → **O**

What number has 8 tens and 1 one? → **V**

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

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

What number has 4 tens and 2 ones? → **C**

What number has 6 tens and 0 ones? → **S**

What number has 2 tens and 4 ones? → **P**

What number has 4 tens and 0 ones? → **R**

What number has 8 tens and 6 ones? → **G**

What number has 6 tens and 7 ones? → **I**

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

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

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

Scratch space:

CLUE 4 Skip counting

We need to set up practice cones on the court. Count the cones by twos to place them fast. Skip counting reveals a clue!

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

W														
45	9	130	20	140	100	26	24	100	20	110	24	100	70	9
10	9	24	26	55	24	100	26	24	42	42	10	9	10	20

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

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 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, __, 12, 14 → **H**

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

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

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

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

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

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

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 3s. Fill the blank: 3, 6, __, 12, 15 → **E**

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

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

Scratch space:

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

The team wants to score twenty points before lunch. They have twelve points now. Find the missing points they need to get a new 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:

$9 + \underline{\quad} = 15$

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

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

$8 + \underline{\quad} = 11$

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

$8 + \underline{\quad} = 16$

$1 + \underline{\quad} = 3$

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

$1 + \underline{\quad} = 2$

$8 + \underline{\quad} = 13$

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

Step 2 - cross out the sentence with each answer:

1. The villain shoots a wild backward shot, then zooms past using laser goggles.
2. The villain leaps super high over the hoops, then scurries off in squeaky shoes.
3. The villain dribbles three balls at once, then zooms past using laser goggles.
4. The villain spins the ball on their nose, then zooms past using laser goggles.
5. The villain leaps super high over the hoops, then flashes a bright glow headband.
6. The villain dunks from half court, then flashes a bright glow headband.
7. The villain leaps super high over the hoops, then runs away in shiny gold sneakers.
8. The villain dribbles three balls at once, then runs away in shiny gold sneakers.
9. The villain shoots a wild backward shot, then bounces off super spring socks.
10. The villain spins the ball on their nose, then runs away in shiny gold sneakers.
11. The villain spins the ball on their nose, then flashes a bright glow headband.
12. The villain leaps super high over the hoops, then bounces off super spring socks.

Answer Key

The Great Hoop Heist

Culprit: Giannis

spins ball on nose · glow headband · uses right hand · orange headband · loves eating popcorn

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY VILLAIN HAS NO SUPER SPRING SOCKS"

$48 + 22 = 70$ (T) · $11 + 12 = 23$ (K) · $30 + 24 = 54$ (A) · $20 + 13 = 33$ (L) · $35 + 29 = 64$ (U) · $47 + 32 = 79$ (R) · $28 + 20 = 48$ (S) · $42 + 48 = 90$ (E) · $19 + 9 = 28$ (N) · $30 + 14 = 44$ (O) · $62 + 27 = 89$ (G) · $15 + 16 = 31$ (I) · $21 + 32 = 53$ (P) · $20 + 18 = 38$ (H) · $27 + 56 = 83$ (C) · $35 + 14 = 49$ (V) · $7 + 15 = 22$ (Y)

Clue 2 (Subtraction): "THE SNEAKER SNATCHER USES RIGHT HAND"

$89 - 36 = 53$ (T) · $85 - 28 = 57$ (D) · $85 - 27 = 58$ (R) · $36 - 19 = 17$ (E) · $122 - 40 = 82$ (S) · $72 - 7 = 65$ (K) · $53 - 38 = 15$ (A) · $78 - 22 = 56$ (N) · $66 - 16 = 50$ (G) · $99 - 11 = 88$ (H) · $54 - 16 = 38$ (I) · $118 - 32 = 86$ (C) · $89 - 10 = 79$ (U)

Clue 3 (Place value): "THE VILLAIN LOVES EATING POPCORN"

What number has 8 tens and 4 ones? = 84 (T) · What number has 5 tens and 5 ones? = 55 (O) · What number has 8 tens and 1 one? = 81 (V) · What number has 6 tens and 3 ones? = 63 (N) · What number has 3 tens and 2 ones? = 32 (L) · What number has 4 tens and 2 ones? = 42 (C) · What number has 6 tens and 0 ones? = 60 (S) · What number has 2 tens and 4 ones? = 24 (P) · What number has 4 tens and 0 ones? = 40 (R) · What number has 8 tens and 6 ones? = 86 (G) · What number has 6 tens and 7 ones? = 67 (I) · What number has 6 tens and 1 one? = 61 (H) · What number has 9 tens and 4 ones? = 94 (E) · What number has 4 tens and 9 ones? = 49 (A)

Clue 4 (Skip counting): "WE FOUND AN ORANGE HEADBAND AT THE HOOP"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (W) · 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 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, __, 12, 14 = 10 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 = 15 (P) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 = 70 (G) · 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 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (E) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (A)

Clue 5 (Missing addends): surviving statement is box 11 → Giannis

$9 + \underline{\quad} = 15 = 6$ · $2 + \underline{\quad} = 9 = 7$ · $3 + \underline{\quad} = 7 = 4$ · $8 + \underline{\quad} = 11 = 3$ · $2 + \underline{\quad} = 14 = 12$ · $8 + \underline{\quad} = 16 = 8$ · $1 + \underline{\quad} = 3 = 2$ · $2 + \underline{\quad} = 12 = 10$ · $1 + \underline{\quad} = 2 = 1$ · $8 + \underline{\quad} = 13 = 5$ · $5 + \underline{\quad} = 14 = 9$