



The Great Hoop Dome Heist

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

Detective: _____ Date: _____

Oh no! The golden championship game ball is missing from the Hoop Dome. A sneaky player snatched it right before the big game. We must use our math skills to find the snatcher and save the game!

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 SHOT	SUPER GEAR	SHOOTING HAND	HEADBAND COLOR	COURT DISTRACTION
Muggsy	No Look Pass	Golden Sneakers	Right Handed	Red Headband	Shiny Camera Flash
Jordan	Three Point Swish	Glowing Jersey	Left Handed	Red Headband	Smell of Popcorn
Wilts	Super Fast Dribble	Golden Sneakers	Right Handed	Green Headband	Smell of Popcorn
Penny	Three Point Swish	Golden Sneakers	Left Handed	Red Headband	Squeaky Toy Noise
Harden	Dunk From Half Court	Sticky Gloves	Right Handed	Red Headband	Squeaky Toy Noise
Kobe	Super Fast Dribble	Mega Bounce Socks	Left Handed	Blue Headband	Squeaky Toy Noise
Dirk	Super Fast Dribble	Squeaky Shoes	Left Handed	Green Headband	Shiny Camera Flash
Booker	Super Fast Dribble	Glowing Jersey	Left Handed	Red Headband	Shiny Camera Flash
Shaq	Super Fast Dribble	Squeaky Shoes	Left Handed	Red Headband	Squeaky Toy Noise
Spud	No Look Pass	Sticky Gloves	Left Handed	Blue Headband	Shiny Camera Flash
Klay	Three Point Swish	Mega Bounce Socks	Right Handed	Green Headband	Smell of Popcorn
Tatum	Three Point Swish	Sticky Gloves	Left Handed	Red Headband	Smell of Popcorn
LeBron	Three Point Swish	Mega Bounce Socks	Left Handed	Red Headband	Squeaky Toy Noise
Dame	Dunk From Half Court	Mega Bounce Socks	Left Handed	Blue Headband	Shiny Camera Flash
Magic	Super Fast Dribble	Mega Bounce Socks	Left Handed	Green Headband	Smell of Popcorn
Fox	High Jump Block	Golden Sneakers	Right Handed	Green Headband	Squeaky Toy Noise
Zion	No Look Pass	Glowing Jersey	Left Handed	Red Headband	Squeaky Toy Noise
Yao	Dunk From Half Court	Sticky Gloves	Left Handed	Red Headband	Squeaky Toy Noise
Giannis	Three Point Swish	Sticky Gloves	Left Handed	Green Headband	Squeaky Toy Noise
Kyrie	No Look Pass	Glowing Jersey	Left Handed	Green Headband	Smell of Popcorn
Luka	High Jump Block	Glowing Jersey	Right Handed	Blue Headband	Smell of Popcorn

CLUE 1

Addition

Let us count the extra basketballs in the rack. We add the red balls and the blue balls to find the total.

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

T																		T
6	9	7	17	5	7	3	16	11	20	12	7	13	12	7	17	5	12	6
14	7	3	2	15	12	10	13	7	5	17	5	7	3	16	7	2	17	

$5 + 1 = \square \rightarrow$ T	$1 + 2 = \square \rightarrow$ A	$3 + 8 = \square \rightarrow$ Y	$8 + 12 = \square \rightarrow$ F
$5 + 4 = \square \rightarrow$ H	$6 + 4 = \square \rightarrow$ L	$1 + 1 = \square \rightarrow$ R	$5 + 10 = \square \rightarrow$ G
$8 + 4 = \square \rightarrow$ O	$8 + 9 = \square \rightarrow$ S	$9 + 7 = \square \rightarrow$ K	$4 + 1 = \square \rightarrow$ N
$8 + 5 = \square \rightarrow$ D	$8 + 6 = \square \rightarrow$ W	$4 + 3 = \square \rightarrow$ E	

Scratch space:

CLUE 2

The coach had a pile of game tickets. Some fell out of his bag on the court. Subtract the lost ones to see what is left.

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

Diagram illustrating a sequence of boxes and numbers:

Row 1: [T] [] [] [] [] [] [] [] [] [] [] [T] [] [] [] [T] [] [] [] [] []

Row 2: [T] [] [] [] [T] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] []

Numbers below the boxes:

Row 1: 2, 4, 11, 13, 6, 3, 3, 18, 6, 9, 17, 4, 15, 15, 2, 17, 1, 6, 2, 4

Row 2: 2, 4, 11, 3, 11, 14, 2, 4, 18, 9, 16

$3 - 1 = \boxed{} \rightarrow \boxed{\text{T}}$

$19 - 1 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$15 - 6 = \boxed{} \rightarrow \boxed{\text{N}}$

$6 - 5 = \boxed{} \rightarrow \boxed{\text{W}}$

$6 - 2 = \boxed{} \rightarrow \boxed{\text{H}}$

$$6 - 3 = \boxed{} \rightarrow \boxed{\text{L}}$$

$9 - 3 = \boxed{} \rightarrow \boxed{1}$

$17 - 1 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$19 - 4 = \boxed{} \rightarrow \boxed{0}$

$20 - 6 = \boxed{} \rightarrow \boxed{\text{F}}$

$15 - 2 = \boxed{} \rightarrow \boxed{\mathbf{V}}$

$17 - 6 = \boxed{} \rightarrow \boxed{\text{E}}$

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

Scratch space:

CLUE 3

Skip counting

We need to count the sneakers left in the locker room. Let us skip count the shoes by twos to make it fast.

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

S										S					S				
10	45	16	8	36	26	35	90	110	35	10	6	80	55	55	10	90	110	130	
			S																
90	28	80	10	130	55	36	35	8	120										

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Scratch space:

CLUE 4 Place value

The big scoreboard is blinking. It shows tens and ones. Let us read the place value to find the secret score.

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

W																		
74	14	49	13	77	78	34	33	91	14	34	80	14	33	34	58	33	78	34
13	78	71	80	14	72	13	77	91	71									

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

What number has 1 ten and 3 ones? → **O**

What number has 3 tens and 3 ones? → **A**

What number has 9 tens and 1 one? → **R**

What number has 5 tens and 8 ones? → **B**

What number has 7 tens and 7 ones? → **U**

What number has 7 tens and 2 ones? → **C**

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

What number has 1 ten and 4 ones? → **E**

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

What number has 7 tens and 8 ones? → **N**

What number has 7 tens and 1 one? → **T**

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

Scratch space:

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

The team water crate must have ten bottles. Right now it only has some. How many more do we need to make ten?

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:

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

$7 + \underline{\quad} = 17$

$10 + \underline{\quad} = 13$

$1 + \underline{\quad} = 9$

$7 + \underline{\quad} = 19$

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

$5 + \underline{\quad} = 12$

$8 + \underline{\quad} = 9$

$9 + \underline{\quad} = 14$

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

$4 + \underline{\quad} = 13$

Step 2 - cross out the sentence with each answer:

1. The villain dribbles past the guard, then steals the ball away.
2. The villain dribbles past the guard, then passes to an open teammate.
3. The villain runs down the court, then swishes a three pointer.
4. The villain fakes to the left, then steals the ball away.
5. The villain dribbles past the guard, then swishes a three pointer.
6. The villain fakes to the left, then passes to an open teammate.
7. The villain dribbles past the guard, then blocks a high shot.
8. The villain runs down the court, then passes to an open teammate.
9. The villain leaps over the defense, then blocks a high shot.
10. The villain leaps over the defense, then slams down a massive dunk.
11. The villain dribbles past the guard, then slams down a massive dunk.
12. The villain runs down the court, then blocks a high shot.

Answer Key

The Great Hoop Dome Heist

Culprit: Yao

Dunk From Half Court · Sticky Gloves · Left Handed · Red Headband · Squeaky Toy Noise

Trail: Start 21 → Clue 1 17 → Clue 2 14 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY FOE DOES NOT WEAR GOLDEN SNEAKERS"

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

Clue 2 (Subtraction): "THE VILLAIN SHOTS WITH THE LEFT HAND"

$3 - 1 = 2$ (T) · $19 - 1 = 18$ (A) · $15 - 6 = 9$ (N) · $6 - 5 = 1$ (W) · $6 - 2 = 4$ (H) · $6 - 3 = 3$ (L) · $9 - 3 = 6$ (I) · $17 - 1 = 16$ (D) · $19 - 4 = 15$ (O) · $20 - 6 = 14$ (F) · $15 - 2 = 13$ (V) · $17 - 6 = 11$ (E) · $19 - 2 = 17$ (S)

Clue 3 (Skip counting): "SQUEAKY TOYS WILL STOP THIS PLAYER"

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

Clue 4 (Place value): "WE FOUND A RED HEADBAND ON THE COURT"

What number has 7 tens and 4 ones? = 74 (W) · What number has 1 ten and 3 ones? = 13 (O) · What number has 3 tens and 3 ones? = 33 (A) · What number has 9 tens and 1 one? = 91 (R) · What number has 5 tens and 8 ones? = 58 (B) · What number has 7 tens and 7 ones? = 77 (U) · What number has 7 tens and 2 ones? = 72 (C) · What number has 4 tens and 9 ones? = 49 (F) · What number has 1 ten and 4 ones? = 14 (E) · What number has 8 tens and 0 ones? = 80 (H) · What number has 7 tens and 8 ones? = 78 (N) · What number has 7 tens and 1 one? = 71 (T) · What number has 3 tens and 4 ones? = 34 (D)

Clue 5 (Missing addends): surviving statement is box 2 → Yao

$8 + \underline{\quad} = 12 = 4$ · $7 + \underline{\quad} = 17 = 10$ · $10 + \underline{\quad} = 13 = 3$ · $1 + \underline{\quad} = 9 = 8$ · $7 + \underline{\quad} = 19 = 12$ · $10 + \underline{\quad} = 16 = 6$ · $5 + \underline{\quad} = 12 = 7$ · $8 + \underline{\quad} = 9 = 1$ · $9 + \underline{\quad} = 14 = 5$ · $1 + \underline{\quad} = 12 = 11$ · $4 + \underline{\quad} = 13 = 9$