



The Case of the Missing Championship Trophy

Grade 4 math · Addition, Rounding, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ Date: _____

The glittering Golden Basketball Trophy has vanished from the display case right before the big game! The Phantom Dunker left a trail of shiny court prints. We must find the thief before the final buzzer sounds!

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 The Phantom Dunker 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	SHOOTING HAND	HEADBAND STYLE	TRICKY DEFENSE
Dearron	Lightning Crossover	Glitter Clipboard	Right Handed	Green Headband	Zone Defense
Giannis	Sky Hook	Glitter Clipboard	Left Handed	Blue Headband	Full Court Press
Draymond	Lightning Crossover	Squeaky Socks	Left Handed	Green Headband	Full Court Press
LaMelo	Lightning Crossover	Glitter Clipboard	Left Handed	Red Headband	Double Team
Ja	Tornado Spin	Golden Shoes	Right Handed	Blue Headband	Zone Defense
Trae	Sky Hook	Glitter Clipboard	Left Handed	Green Headband	Double Team
Klay	Tornado Spin	Glitter Clipboard	Right Handed	Red Headband	Full Court Press
Anthony	Mega Dunk	Golden Shoes	Left Handed	Blue Headband	Full Court Press
LeBron	No Look Pass	Squeaky Socks	Right Handed	Green Headband	Zone Defense
Steph	Tornado Spin	Glitter Clipboard	Right Handed	Blue Headband	Zone Defense
Kevin	Mega Dunk	Silver Whistle	Left Handed	Red Headband	Double Team
Jayson	Sky Hook	Golden Shoes	Right Handed	Green Headband	Double Team
Zion	Tornado Spin	Squeaky Socks	Right Handed	Red Headband	Double Team
Bam	Sky Hook	Silver Whistle	Right Handed	Blue Headband	Double Team
Joel	Mega Dunk	Golden Shoes	Right Handed	Green Headband	Zone Defense
Jimmy	No Look Pass	Silver Whistle	Right Handed	Green Headband	Zone Defense
Kawhi	Mega Dunk	Neon Wristband	Right Handed	Green Headband	Zone Defense
Devin	No Look Pass	Glitter Clipboard	Left Handed	Green Headband	Zone Defense
Nikola	Sky Hook	Silver Whistle	Right Handed	Green Headband	Double Team
Luka	Tornado Spin	Silver Whistle	Left Handed	Red Headband	Zone Defense
Kyrie	Tornado Spin	Silver Whistle	Right Handed	Green Headband	Double Team

CLUE 1 Addition

Coach tallies the basketballs left in the storage bin to check for clues. To find who took the trophy we must add up the missing balls.

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

T																T
6690	2510	5492	2812	7551	4276	4276	2675	7551	3696	3718	9063	5492	3484	3696	9063	6690
8008	5492	2675	8440	3484	5391	4095	5492	2675	2277	4532	3484	9063	7320	2277	3484	

$2476 + 4214 = \square \rightarrow$ T	$1452 + 2824 = \square \rightarrow$ L	$1651 + 859 = \square \rightarrow$ H
$2710 + 4841 = \square \rightarrow$ I	$1225 + 1450 = \square \rightarrow$ A	$1579 + 2953 = \square \rightarrow$ Y
$1176 + 2542 = \square \rightarrow$ D	$1968 + 844 = \square \rightarrow$ V	$1241 + 2243 = \square \rightarrow$ S
$6147 + 2916 = \square \rightarrow$ O	$2150 + 1546 = \square \rightarrow$ N	$2124 + 1971 = \square \rightarrow$ U
$4303 + 4137 = \square \rightarrow$ R	$3088 + 2303 = \square \rightarrow$ Q	$4340 + 3668 = \square \rightarrow$ W
$3287 + 4033 = \square \rightarrow$ C	$2299 + 3193 = \square \rightarrow$ E	$683 + 1594 = \square \rightarrow$ K

Scratch space:

CLUE 2

The giant arena scoreboard took a big hit and now only shows rounded numbers. Round the fan count to reveal the next clue.

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

Diagram illustrating the distribution of 10000 items across 10 groups. The groups are represented by boxes, some of which are shaded orange and labeled 'T' for 'Top'. The values for each group are: 1100, 170, 3700, 7000, 170, 300, 290, 1100, 200, 130, 1300, 170, 200, 1100, 430, 30, 1100, 170. The 'T' groups are the first, eighth, and thirteenth groups.

Round 1,054 to the nearest hundred $\rightarrow$ **T**

Round 7,233 to the nearest thousand $\rightarrow$ **P**

Round 17 to the nearest ten → **R**

Round 89 to the nearest ten → **G**

Round 429 to the nearest ten → **W**

Round 126 to the nearest ten → **M**

Round 170 to the nearest ten → **H**

Round 205 to the nearest hundred $\rightarrow$

Round 289 to the nearest ten → **N**

Round 30 to the nearest ten $\rightarrow$

Round 1,271 to the nearest hundred →

Round 9,072 to the nearest thousand → **D**

Round 294 to the nearest hundred $\rightarrow$ **A**

Round 3,663 to the nearest hundred → **E**

Scratch space:

CLUE 3

Subtraction

The sneaky thief stole some sneakers from the gear bag. Subtract the remaining shoes to see how many were lost.

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

T								T											
5959	6035	1500	6271	6035	4416	4065	5959	6410	6613	5637	4416	2638	7690	1348	6410	3507	7494	1500	7786
7690	5349	3177	6410	4065	1500	7786	1500	1057	1500	4065	2638	1500							

$10860 - 4901 = \square \rightarrow \boxed{\text{T}}$

$9334 - 3985 = \square \rightarrow \boxed{\text{Y}}$

$6997 - 4359 = \square \rightarrow \boxed{\text{S}}$

$4898 - 1391 = \square \rightarrow \boxed{\text{C}}$

$11148 - 4877 = \square \rightarrow \boxed{\text{P}}$

$11476 - 3982 = \square \rightarrow \boxed{\text{K}}$

$2415 - 1358 = \square \rightarrow \boxed{\text{F}}$

$2955 - 1607 = \square \rightarrow \boxed{\text{L}}$

$8026 - 4849 = \square \rightarrow \boxed{\text{Z}}$

$5719 - 1303 = \square \rightarrow \boxed{\text{A}}$

$7959 - 1924 = \square \rightarrow \boxed{\text{H}}$

$8360 - 2723 = \square \rightarrow \boxed{\text{W}}$

$6791 - 381 = \square \rightarrow \boxed{\text{O}}$

$10741 - 4128 = \square \rightarrow \boxed{\text{M}}$

$10360 - 2670 = \square \rightarrow \boxed{\text{B}}$

$4094 - 29 = \square \rightarrow \boxed{\text{N}}$

$10879 - 3093 = \square \rightarrow \boxed{\text{D}}$

$1896 - 396 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The team practices shooting drills in equal rows on the court. Multiply the drills by the baskets scored to find the clue.

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

W																	
30	70	35	63	24	80	121	35	7	66	100	28	36	35	100	63	3	7

40	100	70	70	80	44	70	7	121	66	7	80	121

$5 \times 6 = \square \rightarrow \text{W}$

$6 \times 4 = \square \rightarrow \text{U}$

$10 \times 7 = \square \rightarrow \text{E}$

$3 \times 1 = \square \rightarrow \text{M}$

$10 \times 8 = \square \rightarrow \text{N}$

$11 \times 4 = \square \rightarrow \text{H}$

$5 \times 8 = \square \rightarrow \text{G}$

$1 \times 7 = \square \rightarrow \text{A}$

$6 \times 11 = \square \rightarrow \text{B}$

$7 \times 5 = \square \rightarrow \text{F}$

$7 \times 9 = \square \rightarrow \text{O}$

$11 \times 11 = \square \rightarrow \text{D}$

$4 \times 7 = \square \rightarrow \text{I}$

$4 \times 9 = \square \rightarrow \text{C}$

$10 \times 10 = \square \rightarrow \text{R}$

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

The players are sharing sports drinks after a hard workout. Divide the bottles evenly to uncover the final secret.

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:

$16 \div 4 = \boxed{}$

$54 \div 9 = \boxed{}$

$49 \div 7 = \boxed{}$

$48 \div 4 = \boxed{}$

$55 \div 11 = \boxed{}$

$24 \div 8 = \boxed{}$

$8 \div 1 = \boxed{}$

$1 \div 1 = \boxed{}$

$50 \div 5 = \boxed{}$

$4 \div 2 = \boxed{}$

$36 \div 4 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain throws a sharp no look pass, then squeaks their squeaky socks.
2. The villain swishes a high sky hook, then snaps their neon wristband.
3. The villain executes a lightning crossover, then squeaks their squeaky socks.
4. The villain performs a wild mega dunk, then snaps their neon wristband.
5. The villain swishes a high sky hook, then squeaks their squeaky socks.
6. The villain executes a lightning crossover, then taps their glitter clipboard.
7. The villain throws a sharp no look pass, then blows their silver whistle.
8. The villain spins with a tornado move, then squeaks their squeaky socks.
9. The villain spins with a tornado move, then snaps their neon wristband.
10. The villain spins with a tornado move, then flashes their golden shoes.
11. The villain performs a wild mega dunk, then flashes their golden shoes.
12. The villain executes a lightning crossover, then snaps their neon wristband.

Answer Key

The Case of the Missing Championship Trophy

Culprit: Joel

Mega Dunk · Golden Shoes · Right Handed · Green Headband · Zone Defense

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

Clue 1 (Addition): "THE VILLAIN DOES NOT WEAR SQUEAKY SOCKS"

$2476 + 4214 = 6690$ (T) · $1452 + 2824 = 4276$ (L) · $1651 + 859 = 2510$ (H) · $2710 + 4841 = 7551$ (I) · $1225 + 1450 = 2675$ (A) · $1579 + 2953 = 4532$ (Y) · $1176 + 2542 = 3718$ (D) · $1968 + 844 = 2812$ (V) · $1241 + 2243 = 3484$ (S) · $6147 + 2916 = 9063$ (O) · $2150 + 1546 = 3696$ (N) · $2124 + 1971 = 4095$ (U) · $4303 + 4137 = 8440$ (R) · $3088 + 2303 = 5391$ (Q) · $4340 + 3668 = 8008$ (W) · $3287 + 4033 = 7320$ (C) · $2299 + 3193 = 5492$ (E) · $683 + 1594 = 2277$ (K)

Clue 2 (Rounding): "THE PHANTOM SHOT WITH THE RIGHT HAND"

Round 1,054 to the nearest hundred = 1100 (T) · Round 7,233 to the nearest thousand = 7000 (P) · Round 17 to the nearest ten = 20 (R) · Round 89 to the nearest ten = 90 (G) · Round 429 to the nearest ten = 430 (W) · Round 126 to the nearest ten = 130 (M) · Round 170 to the nearest ten = 170 (H) · Round 205 to the nearest hundred = 200 (O) · Round 289 to the nearest ten = 290 (N) · Round 30 to the nearest ten = 30 (I) · Round 1,271 to the nearest hundred = 1300 (S) · Round 9,072 to the nearest thousand = 9000 (D) · Round 294 to the nearest hundred = 300 (A) · Round 3,663 to the nearest hundred = 3700 (E)

Clue 3 (Subtraction): "THE PHANTOM WAS BLOCKED BY ZONE DEFENSE"

$10860 - 4901 = 5959$ (T) · $9334 - 3985 = 5349$ (Y) · $6997 - 4359 = 2638$ (S) · $4898 - 1391 = 3507$ (C) · $11148 - 4877 = 6271$ (P) · $11476 - 3982 = 7494$ (K) · $2415 - 1358 = 1057$ (F) · $2955 - 1607 = 1348$ (L) · $8026 - 4849 = 3177$ (Z) · $5719 - 1303 = 4416$ (A) · $7959 - 1924 = 6035$ (H) · $8360 - 2723 = 5637$ (W) · $6791 - 381 = 6410$ (O) · $10741 - 4128 = 6613$ (M) · $10360 - 2670 = 7690$ (B) · $4094 - 29 = 4065$ (N) · $10879 - 3093 = 7786$ (D) · $1896 - 396 = 1500$ (E)

Clue 4 (Multiplication facts (1-12)): "WE FOUND FABRIC FROM A GREEN HEADBAND"

$5 \times 6 = 30$ (W) · $6 \times 4 = 24$ (U) · $10 \times 7 = 70$ (E) · $3 \times 1 = 3$ (M) · $10 \times 8 = 80$ (N) · $11 \times 4 = 44$ (H) · $5 \times 8 = 40$ (G) · $1 \times 7 = 7$ (A) · $6 \times 11 = 66$ (B) · $7 \times 5 = 35$ (F) · $7 \times 9 = 63$ (O) · $11 \times 11 = 121$ (D) · $4 \times 7 = 28$ (I) · $4 \times 9 = 36$ (C) · $10 \times 10 = 100$ (R)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Joel

$16 \div 4 = 4$ · $54 \div 9 = 6$ · $49 \div 7 = 7$ · $48 \div 4 = 12$ · $55 \div 11 = 5$ · $24 \div 8 = 3$ · $8 \div 1 = 8$ · $1 \div 1 = 1$ · $50 \div 5 = 10$ · $4 \div 2 = 2$ · $36 \div 4 = 9$