



The Championship Trophy Caper

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

Detective: _____ Date: _____

The gold Championship Trophy has vanished from the main display case! Someone swapped it with a giant foam finger just before the big game. We need to find the culprit among the all-star athletes before the final whistle blows.

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 Mascot Masker is _____

Possible suspects

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

NAME	GEAR	SPECIAL TRICK	JERSEY STYLE	HEADWEAR	FOIL
Caitlin	power strike racket	dizzy spin whistle	wears home jersey	neon visor strap	sprinkler system
Harry	laser focus visor	confetti ball	wears away jersey	neon visor strap	sprinkler system
LeBron	power strike racket	confetti ball	wears away jersey	neon visor strap	squeaky chew toy
Travis	magnetic goalie mitts	gravity flip hoop	wears home jersey	sweatband over hair	sprinkler system
Nelly	laser focus visor	gravity flip hoop	wears home jersey	neon visor strap	squeaky chew toy
Steph	magnetic goalie mitts	confetti ball	wears home jersey	braided hair ponytail	sprinkler system
Bobby	high jump springers	smoke bomb puck	wears away jersey	sweatband over hair	sprinkler system
Mahomes	super speed cleats	smoke bomb puck	wears home jersey	sweatband over hair	sprinkler system
Chloe	high jump springers	dizzy spin whistle	wears away jersey	neon visor strap	banana peel slip
Usain	super speed cleats	gravity flip hoop	wears home jersey	braided hair ponytail	banana peel slip
Lamar	power strike racket	sticky track glue	wears home jersey	sweatband over hair	squeaky chew toy
Naomi	power strike racket	confetti ball	wears away jersey	sweatband over hair	sprinkler system
Shohei	power strike racket	confetti ball	wears away jersey	neon visor strap	sprinkler system
Becky	high jump springers	sticky track glue	wears away jersey	sweatband over hair	sprinkler system
Coco	laser focus visor	sticky track glue	wears away jersey	sweatband over hair	sprinkler system
Shaquille	power strike racket	dizzy spin whistle	wears away jersey	sweatband over hair	banana peel slip
Marcus	laser focus visor	smoke bomb puck	wears away jersey	neon visor strap	banana peel slip
Alisha	power strike racket	confetti ball	wears home jersey	neon visor strap	sprinkler system
Giannis	laser focus visor	dizzy spin whistle	wears away jersey	sweatband over hair	sprinkler system
Brady	high jump springers	smoke bomb puck	wears away jersey	sweatband over hair	squeaky chew toy
Messi	high jump springers	dizzy spin whistle	wears away jersey	neon visor strap	sprinkler system

CLUE 1 Place value

The stadium locker codes are based on digit positions. Let us look at the tens and hundreds place values on the locker panel to crack the first clue.

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

T			T											T			
70	90	8000	70	90	40	8000	500	30	4000	8000	1000	400	4000	70	600	1000	8000
T								T	T								
70	90	8000	50	4000	400	500	8000	70	70	40	9000	900	80	80			

What is the value of the 7 in 4,370? → **T**

What is the value of the 6 in 613? → **U**

What is the value of the 5 in 599? → **F**

What is the value of the 9 in 5,924? → **A**

What is the value of the 9 in 9,278? → **B**

What is the value of the 3 in 4,734? → **D**

What is the value of the 4 in 4,168? → **O**

What is the value of the 5 in 3,451? → **C**

What is the value of the 9 in 2,691? → **H**

What is the value of the 8 in 58,349? → **E**

What is the value of the 4 in 1,427? → **N**

What is the value of the 8 in 2,686? → **L**

What is the value of the 1 in 21,427? → **S**

What is the value of the 4 in 2,140? → **I**

Scratch space:

CLUE 2 Addition

The equipment manager needs to total all the baseballs and tennis balls found near the trophy case. Adding these sport items together gives us another hint.

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

T											T					T	
227	777	890	948	297	890	272	577	751	272	227	777	313	890	227	890		
826	890	272	248	948	272	297	272	826	272	751	435	890	248	948	890	751	

$136 + 91 = \square \rightarrow \boxed{\text{T}}$	$382 + 566 = \square \rightarrow \boxed{\text{S}}$	$175 + 97 = \square \rightarrow \boxed{\text{A}}$
$536 + 354 = \square \rightarrow \boxed{\text{E}}$	$523 + 254 = \square \rightarrow \boxed{\text{H}}$	$223 + 354 = \square \rightarrow \boxed{\text{K}}$
$255 + 180 = \square \rightarrow \boxed{\text{J}}$	$131 + 182 = \square \rightarrow \boxed{\text{L}}$	$439 + 387 = \square \rightarrow \boxed{\text{W}}$
$229 + 522 = \square \rightarrow \boxed{\text{Y}}$	$131 + 166 = \square \rightarrow \boxed{\text{N}}$	$171 + 77 = \square \rightarrow \boxed{\text{R}}$

Scratch space:

Multiplication facts (1-12)

The cheer squad stands in equal rows. By multiplying the rows of dancers by the number in each row, we find the code to unlock the next piece of evidence.

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

A 2x10 grid of boxes. The top row contains the following values from left to right: 48 (orange), 42, 10, 100, 120, 49, 3, 18, 36, 108, 10, 49, 100, 88, 100, 48 (orange), 10, 54. The bottom row contains the following values from left to right: 7, 3, 108, 108, 7, 10, 48 (orange), 48 (orange), 42, 10, 3, 49, 100, 42, 35, 10, 100.

$$12 \times 4 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$9 \times 12 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$8 \times 11 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$1 \times 3 = \boxed{} \rightarrow \boxed{1}$

$10 \times 10 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$$7 \times 7 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$7 \times 6 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$9 \times 2 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$10 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{P}}$$

$12 \times 3 = \boxed{} \rightarrow \mathbf{K}$

$$7 \times 5 = \boxed{} \rightarrow \boxed{0}$$

$$6 \times 9 = \boxed{} \rightarrow \boxed{\mathbf{M}}$$

$$7 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$10 \times 1 = \boxed{} \rightarrow \boxed{\text{E}}$

Scratch space:

CLUE 4 Rounding

The radar gun shows the soccer ball speed, but it only displays speeds rounded to the nearest ten. Rounding the radar readout lets us unlock a hidden message.

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

A				A			A												
900	500	20	4000	900	7000	80	900	5000	400	700	9000	4000	200	70	900	40	200		
	A																		
20	900	500	6000	4000	3000	7000	80	4000	70	40	5000	400							

Round 913 to the nearest hundred → **A**

Round 8,530 to the nearest thousand → **V**

Round 237 to the nearest hundred → **R**

Round 83 to the nearest ten → **B**

Round 2,977 to the nearest thousand → **F**

Round 442 to the nearest hundred → **D**

Round 4,727 to the nearest thousand → **N**

Round 6,082 to the nearest thousand → **L**

Round 667 to the nearest hundred → **O**

Round 455 to the nearest hundred → **S**

Round 37 to the nearest ten → **I**

Round 7,248 to the nearest thousand → **T**

Round 3,547 to the nearest thousand → **E**

Round 73 to the nearest ten → **H**

Round 18 to the nearest ten → **W**

Scratch space:

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

The coach is sharing a box of energy bars equally among the players. Dividing the snacks into equal groups reveals the final clue about the thief.

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:

$63 \div 7 = \boxed{}$

$64 \div 8 = \boxed{}$

$12 \div 4 = \boxed{}$

$11 \div 1 = \boxed{}$

$42 \div 6 = \boxed{}$

$42 \div 7 = \boxed{}$

$24 \div 2 = \boxed{}$

$10 \div 1 = \boxed{}$

$14 \div 7 = \boxed{}$

$24 \div 6 = \boxed{}$

$8 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swings a glowing tennis racket, then jumps through a gravity flip hoop.
2. The villain zooms across the grass, then throws a dizzy spin whistle to distract the guard.
3. The villain leaps over the goalpost, then drops a sticky track glue trap.
4. The villain catches a flying gold coin, then jumps through a gravity flip hoop.
5. The villain scans the crowd with a visor, then throws a dizzy spin whistle to distract the guard.
6. The villain zooms across the grass, then drops a sticky track glue trap.
7. The villain catches a flying gold coin, then drops a sticky track glue trap.
8. The villain leaps over the goalpost, then tosses a smoke bomb puck.
9. The villain scans the crowd with a visor, then drops a sticky track glue trap.
10. The villain leaps over the goalpost, then launches a bright confetti ball.
11. The villain scans the crowd with a visor, then jumps through a gravity flip hoop.
12. The villain swings a glowing tennis racket, then throws a dizzy spin whistle to distract the guard.

Answer Key

The Championship Trophy Caper

Culprit: Giannis

laser focus visor · dizzy spin whistle · wears away jersey · sweatband over hair · sprinkler system

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT USE THE CONFETTI BALL"

What is the value of the 7 in 4,370? = 70 (T) · What is the value of the 6 in 613? = 600 (U) · What is the value of the 5 in 599? = 500 (F) · What is the value of the 9 in 5,924? = 900 (A) · What is the value of the 9 in 9,278? = 9000 (B) · What is the value of the 3 in 4,734? = 30 (D) · What is the value of the 4 in 4,168? = 4000 (O) · What is the value of the 5 in 3,451? = 50 (C) · What is the value of the 9 in 2,691? = 90 (H) · What is the value of the 8 in 58,349? = 8000 (E) · What is the value of the 4 in 1,427? = 400 (N) · What is the value of the 8 in 2,686? = 80 (L) · What is the value of the 1 in 21,427? = 1000 (S) · What is the value of the 4 in 2,140? = 40 (I)

Clue 2 (Addition): "THE SNEAKY ATHLETE WEARS AN AWAY JERSEY"

$136 + 91 = 227$ (T) · $382 + 566 = 948$ (S) · $175 + 97 = 272$ (A) · $536 + 354 = 890$ (E) · $523 + 254 = 777$ (H) · $223 + 354 = 577$ (K) · $255 + 180 = 435$ (J) · $131 + 182 = 313$ (L) · $439 + 387 = 826$ (W) · $229 + 522 = 751$ (Y) · $131 + 166 = 297$ (N) · $171 + 77 = 248$ (R)

Clue 3 (Multiplication facts (1-12)): "THE SPRINKLER SYSTEM WILL WET THEIR SHOES"

$12 \times 4 = 48$ (T) · $9 \times 12 = 108$ (L) · $8 \times 11 = 88$ (Y) · $1 \times 3 = 3$ (I) · $10 \times 10 = 100$ (S) · $7 \times 7 = 49$ (R) · $7 \times 6 = 42$ (H) · $9 \times 2 = 18$ (N) · $10 \times 12 = 120$ (P) · $12 \times 3 = 36$ (K) · $7 \times 5 = 35$ (O) · $6 \times 9 = 54$ (M) · $7 \times 1 = 7$ (W) · $10 \times 1 = 10$ (E)

Clue 4 (Rounding): "A SWEATBAND OVER HAIR WAS LEFT BEHIND"

Round 913 to the nearest hundred = 900 (A) · Round 8,530 to the nearest thousand = 9000 (V) · Round 237 to the nearest hundred = 200 (R) · Round 83 to the nearest ten = 80 (B) · Round 2,977 to the nearest thousand = 3000 (F) · Round 442 to the nearest hundred = 400 (D) · Round 4,727 to the nearest thousand = 5000 (N) · Round 6,082 to the nearest thousand = 6000 (L) · Round 667 to the nearest hundred = 700 (O) · Round 455 to the nearest hundred = 500 (S) · Round 37 to the nearest ten = 40 (I) · Round 7,248 to the nearest thousand = 7000 (T) · Round 3,547 to the nearest thousand = 4000 (E) · Round 73 to the nearest ten = 70 (H) · Round 18 to the nearest ten = 20 (W)

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

$63 \div 7 = 9$ · $64 \div 8 = 8$ · $12 \div 4 = 3$ · $11 \div 1 = 11$ · $42 \div 6 = 7$ · $42 \div 7 = 6$ · $24 \div 2 = 12$ · $10 \div 1 = 10$ · $14 \div 7 = 2$ · $24 \div 6 = 4$ · $8 \div 8 = 1$