The Missing Golden Trophy Mystery

Grade 3 math · Multiplication, Word problems, Skip counting, Rounding, Missing addends · Reading level grades 3-4

Detective: _____ **Date:** _____

Right before kick-off at the Big Game, the Golden Football Trophy disappeared from center field! Coach Blitz needs your math detective skills to check the locker rooms, solve clues, and catch the sneaky thief before halftime.

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 stadium intruder is _____

Possible suspects

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

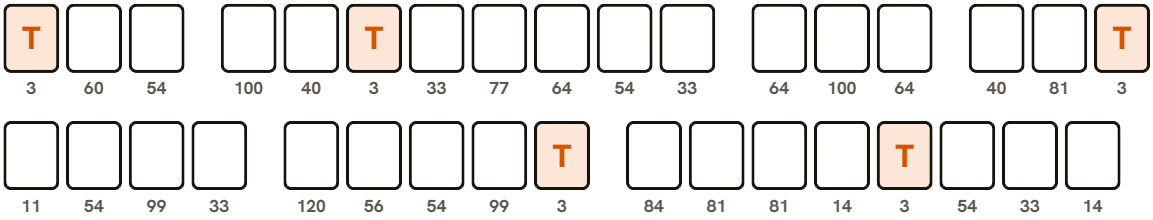
NAME	SIGNATURE MOVE	LUCKY GEAR	CLEAT KNOT	HELMET HAIR	GAME OBSTACLE
Deebo Samuel	Cannon Arm	Gold Whistle	Ties Right First	Spiky Black Hair	Loud Whistles
Stefon Diggs	Turbo Dash	Cleat Boosters	Ties Left First	Shaved Blonde Hair	Bright Floodlights
Justin Tucker	Cannon Arm	Padded Cape	Ties Left First	Spiky Black Hair	Bright Floodlights
JaMarr Chase	Cannon Arm	Padded Cape	Ties Right First	Spiky Black Hair	Loud Whistles
Amon Ra St Brown	Iron Hands	Gold Whistle	Ties Right First	Curly Red Hair	Bright Floodlights
Nick Bosa	Iron Hands	Grip Gloves	Ties Left First	Shaved Blonde Hair	Slippery Mud
Saquon Barkley	Iron Hands	Gold Whistle	Ties Left First	Spiky Black Hair	Loud Whistles
George Kittle	Sonic Tackle	Padded Cape	Ties Left First	Shaved Blonde Hair	Bright Floodlights
Micah Parsons	Cannon Arm	Visor Shield	Ties Left First	Spiky Black Hair	Bright Floodlights
Aaron Donald	Precision Kick	Visor Shield	Ties Left First	Shaved Blonde Hair	Bright Floodlights
Fred Warner	Turbo Dash	Grip Gloves	Ties Left First	Shaved Blonde Hair	Slippery Mud
Ceedee Lamb	Iron Hands	Padded Cape	Ties Left First	Shaved Blonde Hair	Slippery Mud
Tyreek Hill	Precision Kick	Cleat Boosters	Ties Right First	Shaved Blonde Hair	Loud Whistles
Justin Jefferson	Precision Kick	Grip Gloves	Ties Right First	Shaved Blonde Hair	Bright Floodlights
Derrick Henry	Sonic Tackle	Visor Shield	Ties Right First	Spiky Black Hair	Loud Whistles
Travis Kelce	Sonic Tackle	Visor Shield	Ties Right First	Spiky Black Hair	Bright Floodlights
Josh Allen	Iron Hands	Padded Cape	Ties Left First	Shaved Blonde Hair	Loud Whistles
Lamar Jackson	Cannon Arm	Cleat Boosters	Ties Right First	Curly Red Hair	Slippery Mud
Tua Tagovailoa	Cannon Arm	Cleat Boosters	Ties Left First	Shaved Blonde Hair	Loud Whistles
Patrick Mahomes	Iron Hands	Grip Gloves	Ties Left First	Shaved Blonde Hair	Bright Floodlights
T J Watt	Iron Hands	Gold Whistle	Ties Left First	Shaved Blonde Hair	Bright Floodlights

make your own at mathcrackers.com

CLUE 1 Multiplication facts (1-12)

Coach Blitz sets out trays of practice footballs arranged in equal rows to decode the first stadium clue.

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



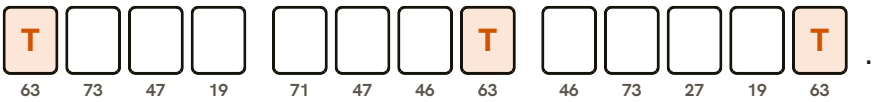
1 × 3 = ☐ → T	11 × 7 = ☐ → U	4 × 10 = ☐ → N
9 × 9 = ☐ → O	12 × 5 = ☐ → H	9 × 11 = ☐ → A
1 × 11 = ☐ → W	6 × 9 = ☐ → E	12 × 10 = ☐ → C
7 × 8 = ☐ → L	3 × 11 = ☐ → R	8 × 8 = ☐ → D
10 × 10 = ☐ → I	12 × 7 = ☐ → B	2 × 7 = ☐ → S

Scratch space:

CLUE 2 Word problems

The equipment manager needs help counting up gear orders to figure out who visited the locker room.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was 

.

Coach lined up 7 rows of 9 helmets. How many helmets in all?

Answer: ☐ → **T**

There were 41 playbooks. 14 were used up. How many playbooks are left?

Answer: ☐ → **R**

There were 61 playbooks. 14 were used up. How many playbooks are left?

Answer: ☐ → **E**

There were 86 water bottles. 40 were used up. How many water bottles are left?

Answer: ☐ → **F**

There were 37 playbooks. 18 were used up. How many playbooks are left?

Answer: ☐ → **S**

There were 111 water bottles. 40 were used up. How many water bottles are left?

Answer: ☐ → **L**

Coach found 10 towels yesterday and 63 more today. How many towels in all?

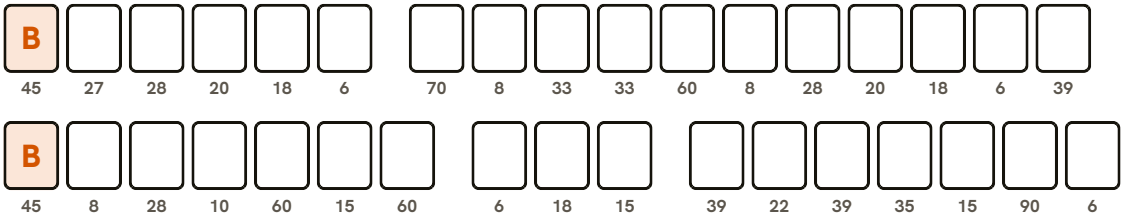
Answer: ☐ → **I**

Scratch space:

CLUE 3 Skip counting

Detective Blitz counts field yard markers by tens to trace where the runner went.

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



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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 ☐ → **O**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 ☐ → **U**

Skip-count by 5s. Fill the blank: 5, 10, 15, ___, 25, 30 ☐ → **G**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 ☐ → **N**

Skip-count by 5s. Fill the blank: 5, 10, ___, 20, 25 ☐ → **E**

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, ___, 20, 22 ☐ → **H**

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

Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 ☐ → **T**

Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 ☐ → **L**

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

Scratch space:

CLUE 4 Rounding

The scoreboard system only shows attendance rounded to the nearest hundred revealing a hidden code.

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

S															
2000	6000	500	4000	50	30	5000	40	70	9000	30	50	6000	500	400	7000

30	7000	400	800	600	50	30	9000	50	500	7000	5000	50	9000	900	6000

Round 2,249 to the nearest thousand ☐ → S

Round 43 to the nearest ten ☐ → L

Round 4,134 to the nearest thousand ☐ → V

Round 5,546 to the nearest thousand ☐ → H

Round 495 to the nearest hundred ☐ → A

Round 50 to the nearest ten ☐ → E

Round 447 to the nearest hundred ☐ → I

Round 33 to the nearest ten ☐ → D

Round 5,014 to the nearest thousand ☐ → B

Round 839 to the nearest hundred ☐ → F

Round 891 to the nearest hundred ☐ → C

Round 7,498 to the nearest thousand ☐ → R

Round 602 to the nearest hundred ☐ → T

Round 9,485 to the nearest thousand ☐ → N

Round 73 to the nearest ten ☐ → O

Scratch space:

CLUE 5 Missing addends - the last clue

To unlock the final locker you must find the missing score needed to tie the game.

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:

5 + ___ = 13 ☐	9 + ___ = 15 ☐	10 + ___ = 13 ☐	10 + ___ = 15 ☐
4 + ___ = 5 ☐	9 + ___ = 16 ☐	10 + ___ = 20 ☐	6 + ___ = 18 ☐
2 + ___ = 13 ☐	4 + ___ = 13 ☐	3 + ___ = 5 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain tackled the trophy display, then clicked their cleat boosters.
2. The villain threw a spiral past security, then lowered their visor shield.
3. The villain snagged the case with one hand, then adjusted their grip gloves.
4. The villain snagged the case with one hand, then blew a sharp blast on a gold whistle.
5. The villain dashed through the end zone, then lowered their visor shield.
6. The villain kicked the side door open, then lowered their visor shield.
7. The villain dashed through the end zone, then blew a sharp blast on a gold whistle.
8. The villain tackled the trophy display, then adjusted their padded cape.
9. The villain kicked the side door open, then clicked their cleat boosters.
10. The villain threw a spiral past security, then adjusted their grip gloves.
11. The villain kicked the side door open, then blew a sharp blast on a gold whistle.
12. The villain dashed through the end zone, then clicked their cleat boosters.

TEACHER / PARENT

Answer Key

The Missing Golden Trophy Mystery

Culprit: T J Watt

Iron Hands · Gold Whistle · Ties Left First · Shaved Blonde Hair · Bright Floodlights

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE INTRUDER DID NOT WEAR CLEAT BOOSTERS"

1 × 3 = 3 (T) · 11 × 7 = 77 (U) · 4 × 10 = 40 (N) · 9 × 9 = 81 (O) · 12 × 5 = 60 (H) · 9 × 11 = 99 (A) · 1 × 11 = 11 (W) · 6 × 9 = 54 (E) · 12 × 10 = 120 (C) · 7 × 8 = 56 (L) · 3 × 11 = 33 (R) · 8 × 8 = 64 (D) · 2 × 7 = 14 (S) · 10 × 10 = 100 (I) · 12 × 7 = 84 (B)

Clue 2 (Word problems): "TIES LEFT FIRST"

Coach lined up 7 rows of 9 helmets. How many helmets in all? = 63 (T) · There were 41 playbooks. 14 were used up. How many playbooks are left? = 27 (R) · There were 61 playbooks. 14 were used up. How many playbooks are left? = 47 (E) · There were 86 water bottles. 40 were used up. How many water bottles are left? = 46 (F) · There were 37 playbooks. 18 were used up. How many playbooks are left? = 19 (S) · There were 111 water bottles. 40 were used up. How many water bottles are left? = 71 (L) · Coach found 10 towels yesterday and 63 more today. How many towels in all? = 73 (I)

Clue 3 (Skip counting): "BRIGHT FLOODLIGHTS BLINDED THE SUSPECT"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 = 45 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 = 90 (C) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 = 35 (P) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (U) · Skip-count by 5s. Fill the blank: 5, 10, 15, ___, 25, 30 = 20 (G) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 = 10 (N) · Skip-count by 5s. Fill the blank: 5, 10, ___, 20, 25 = 15 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 = 70 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, ___, 20, 22 = 18 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, ___, 70, 80 = 60 (D) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 = 8 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, ___, 42, 45 = 39 (S)

Clue 4 (Rounding): "SHAVED BLONDE HAIR DRIFTED NEAR BENCH"

Round 2,249 to the nearest thousand = 2000 (S) · Round 43 to the nearest ten = 40 (L) · Round 4,134 to the nearest thousand = 4000 (V) · Round 5,546 to the nearest thousand = 6000 (H) · Round 495 to the nearest hundred = 500 (A) · Round 50 to the nearest ten = 50 (E) · Round 447 to the nearest hundred = 400 (I) · Round 33 to the nearest ten = 30 (D) · Round 5,014 to the nearest thousand = 5000 (B) · Round 839 to the nearest hundred = 800 (F) · Round 891 to the nearest hundred = 900 (C) · Round 7,498 to the nearest thousand = 7000 (R) · Round 602 to the nearest hundred = 600 (T) · Round 9,485 to the nearest thousand = 9000 (N) · Round 73 to the nearest ten = 70 (O)

Clue 5 (Missing addends): surviving statement is box 4 → T J Watt

5 + ___ = 13 = 8 · 9 + ___ = 15 = 6 · 10 + ___ = 13 = 3 · 10 + ___ = 15 = 5 · 4 + ___ = 5 = 1 · 9 + ___ = 16 = 7 · 10 + ___ = 20 = 10 · 6 + ___ = 18 = 12 · 2 + ___ = 13 = 11 · 4 + ___ = 13 = 9 · 3 + ___ = 5 = 2