The Case of the Missing Championship Trophy

Grade 5 math · Addition, Subtraction, Multiplication, Skip counting, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

During the final inning of the regional softball tournament, the shiny championship trophy vanished from the scorers booth. Detective, use the clues and math evidence to figure out who took the trophy!

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 Trophy Snatcher is _____

Possible suspects

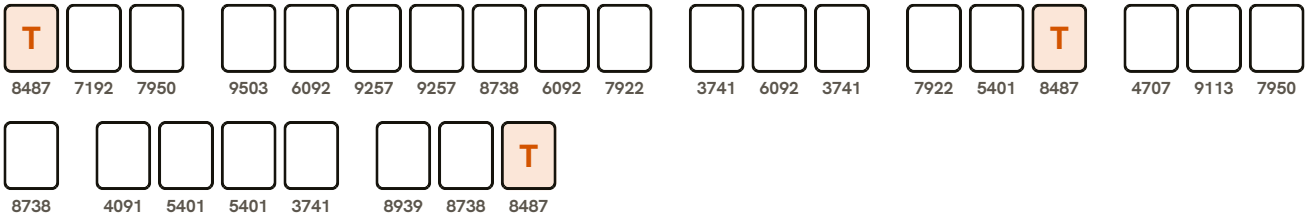
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SPECIALTY SKILL	PREFERRED BAT	THROWING HAND	HAIRSTYLE	DISTRACTION
Sierra Romero	Bunt Defense	Wood Bat	Left handed	Short Hair	Dusty Wind
Jennie Finch	Base Stealing	Alloy Bat	Right handed	Braided Hair	Loud Whistles
Jocelyn Alo	Catching Popups	Wood Bat	Right handed	High Ponytail	Dusty Wind
Leah O Brien	Bunt Defense	Hybrid Bat	Left handed	Braided Hair	Loud Whistles
Odicci Alexander	Power Hitting	Aluminum Bat	Left handed	High Ponytail	Bright Sun
Cat Osterman	Riseball Pitch	Aluminum Bat	Right handed	Braided Hair	Bright Sun
Sis Bates	Base Stealing	Hybrid Bat	Left handed	Braided Hair	Loud Whistles
Michelle Smith	Base Stealing	Alloy Bat	Right handed	Short Hair	Dusty Wind
Sheila Douty	Riseball Pitch	Aluminum Bat	Right handed	Braided Hair	Dusty Wind
Haylie McCleney	Catching Popups	Composite Bat	Left handed	Braided Hair	Loud Whistles
Rachel Garcia	Base Stealing	Wood Bat	Right handed	Short Hair	Dusty Wind
Stacie Chambers	Catching Popups	Hybrid Bat	Left handed	Short Hair	Loud Whistles
Tairia Flowers	Bunt Defense	Composite Bat	Left handed	High Ponytail	Bright Sun
Lauren Chamberlain	Bunt Defense	Wood Bat	Left handed	Braided Hair	Loud Whistles
Amanda Scarborough	Bunt Defense	Hybrid Bat	Right handed	Short Hair	Dusty Wind
Dot Richardson	Bunt Defense	Composite Bat	Left handed	Braided Hair	Loud Whistles
Natasha Watley	Bunt Defense	Wood Bat	Right handed	Braided Hair	Loud Whistles
Lisa Fernandez	Riseball Pitch	Composite Bat	Right handed	Short Hair	Bright Sun
Jessica Mendoza	Catching Popups	Aluminum Bat	Left handed	Braided Hair	Bright Sun
Lovieanne Jung	Bunt Defense	Aluminum Bat	Right handed	High Ponytail	Dusty Wind
Laura Berg	Base Stealing	Composite Bat	Left handed	High Ponytail	Loud Whistles

CLUE 1 Addition

We tallied up all the softballs found near home plate to gather our first key clue.

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



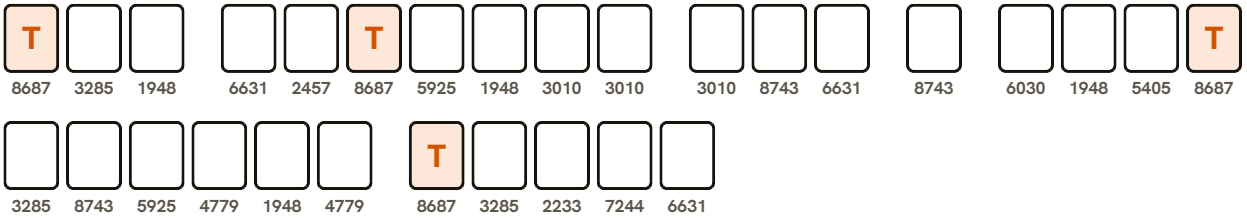
3719 + 4768 = ☐ → T	4237 + 4876 = ☐ → S	2924 + 2477 = ☐ → O
4059 + 3891 = ☐ → E	6038 + 2901 = ☐ → B	2912 + 1795 = ☐ → U
2685 + 1406 = ☐ → W	4447 + 5056 = ☐ → V	3886 + 3306 = ☐ → H
2553 + 1188 = ☐ → D	4210 + 1882 = ☐ → I	2791 + 5947 = ☐ → A
5951 + 3306 = ☐ → L	3488 + 4434 = ☐ → N	

Scratch space:

CLUE 2 Subtraction

After subtracting the missing batting gloves from the storage trunk, another clue became clear.

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



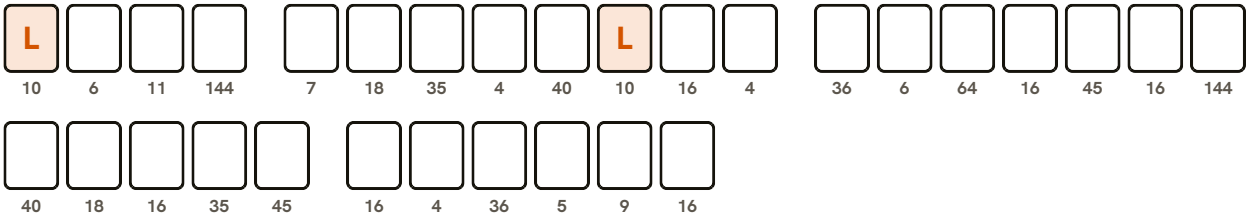
12513 - 3826 = ☐ → T	4465 - 2232 = ☐ → R	8236 - 4951 = ☐ → H
8937 - 3012 = ☐ → N	10018 - 1275 = ☐ → A	3373 - 1425 = ☐ → E
9917 - 3286 = ☐ → W	12225 - 4981 = ☐ → O	4666 - 2209 = ☐ → I
7522 - 2117 = ☐ → F	9421 - 4642 = ☐ → D	6698 - 668 = ☐ → L
3332 - 322 = ☐ → S		

Scratch space:

CLUE 3 Multiplication facts (1-12)

We calculated total team points by multiplying the runs scored per inning to reveal a secret clue.

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



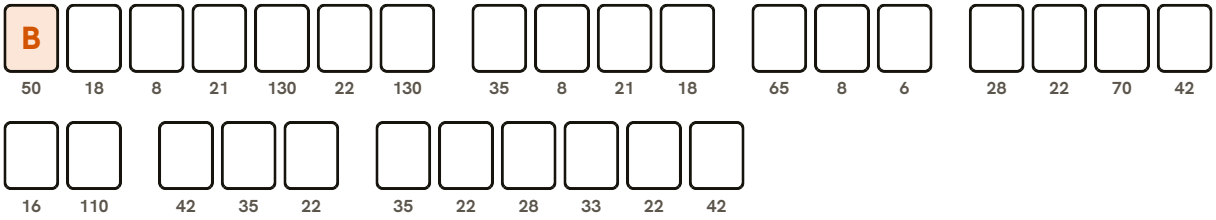
1 × 10 = ☐ → L	9 × 1 = ☐ → P	12 × 12 = ☐ → D	
6 × 1 = ☐ → O	4 × 1 = ☐ → S	4 × 10 = ☐ → T	5 × 1 = ☐ → A
5 × 9 = ☐ → R	8 × 2 = ☐ → E	7 × 1 = ☐ → W	7 × 5 = ☐ → I
2 × 9 = ☐ → H	6 × 6 = ☐ → C	1 × 11 = ☐ → U	8 × 8 = ☐ → V

Scratch space:

CLUE 4 Skip counting

Counting the outfield fence posts by threes brought us closer to decoding the next clue.

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, 45, ___, 55, 60 ☐ → **B**

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

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, ___, 24, 27 ☐ → **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 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 ☐ → **W**

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

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

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

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

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

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

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

Scratch space:

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

> Dividing the leftover energy drinks equally among the dugouts unlocked the final 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:

10 ÷ 5 = ☐	5 ÷ 1 = ☐	20 ÷ 5 = ☐	22 ÷ 2 = ☐	20 ÷ 2 = ☐
14 ÷ 2 = ☐	12 ÷ 4 = ☐	40 ÷ 5 = ☐	108 ÷ 9 = ☐	81 ÷ 9 = ☐
9 ÷ 9 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain executed a sudden base stealing sprint, then swung an aluminum bat.
2. The villain executed a sudden base stealing sprint, then swung a hybrid bat.
3. The villain swung with power hitting power, then swung a composite bat.
4. The villain set up a sharp bunt defense, then swung a hybrid bat.
5. The villain snagged the ball by catching popups, then swung a composite bat.
6. The villain set up a sharp bunt defense, then swung a composite bat.
7. The villain threw a fast riseball pitch, then swung a wood bat.
8. The villain swung with power hitting power, then swung a wood bat.
9. The villain set up a sharp bunt defense, then swung a wood bat.
10. The villain threw a fast riseball pitch, then swung a composite bat.
11. The villain snagged the ball by catching popups, then swung a wood bat.
12. The villain snagged the ball by catching popups, then swung a hybrid bat.

TEACHER / PARENT

Answer Key

The Case of the Missing Championship Trophy

Culprit: Dot Richardson

Bunt Defense · Composite Bat · Left handed · Braided Hair · Loud Whistles

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DID NOT USE A WOOD BAT"

3719 + 4768 = 8487 (T) · 4237 + 4876 = 9113 (S) · 2924 + 2477 = 5401 (O) · 4059 + 3891 = 7950 (E) · 6038 + 2901 = 8939 (B) · 2912 + 1795 = 4707 (U) · 2685 + 1406 = 4091 (W) · 4447 + 5056 = 9503 (V) · 3886 + 3306 = 7192 (H) · 2553 + 1188 = 3741 (D) · 4210 + 1882 = 6092 (I) · 2791 + 5947 = 8738 (A) · 5951 + 3306 = 9257 (L) · 3488 + 4434 = 7922 (N)

Clue 2 (Subtraction): "THE WITNESS SAW A LEFT HANDED THROW"

12513 - 3826 = 8687 (T) · 4465 - 2232 = 2233 (R) · 8236 - 4951 = 3285 (H) · 8937 - 3012 = 5925 (N) · 10018 - 1275 = 8743 (A) · 3373 - 1425 = 1948 (E) · 9917 - 3286 = 6631 (W) · 12225 - 4981 = 7244 (O) · 4666 - 2209 = 2457 (I) · 7522 - 2117 = 5405 (F) · 9421 - 4642 = 4779 (D) · 6698 - 668 = 6030 (L) · 3332 - 322 = 3010 (S)

Clue 3 (Multiplication facts (1-12)): "LOUD WHISTLES COVERED THEIR ESCAPE"

1 × 10 = 10 (L) · 9 × 1 = 9 (P) · 12 × 12 = 144 (D) · 6 × 1 = 6 (O) · 4 × 1 = 4 (S) · 4 × 10 = 40 (T) · 5 × 1 = 5 (A) · 5 × 9 = 45 (R) · 8 × 2 = 16 (E) · 7 × 1 = 7 (W) · 7 × 5 = 35 (I) · 2 × 9 = 18 (H) · 6 × 6 = 36 (C) · 1 × 11 = 11 (U) · 8 × 8 = 64 (V)

Clue 4 (Skip counting): "BRAIDED HAIR WAS LEFT ON THE HELMET"

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, ___, 55, 60 = 50 (B) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 = 35 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 = 8 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (M) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, ___, 24, 27 = 21 (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 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (L) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 = 130 (D) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, ___, 20, 22 = 18 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, ___, 18, 20 = 16 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 = 42 (T)

Clue 5 (Division facts (1-12)): surviving statement is box 6 → Dot Richardson

10 ÷ 5 = 2 · 5 ÷ 1 = 5 · 20 ÷ 5 = 4 · 22 ÷ 2 = 11 · 20 ÷ 2 = 10 · 14 ÷ 2 = 7 · 12 ÷ 4 = 3 · 40 ÷ 5 = 8 · 108 ÷ 9 = 12 · 81 ÷ 9 = 9 · 9 ÷ 9 = 1