The Great Trophy Mystery

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

Detective: _____ **Date:** _____

Someone took the gold trophy right off the midfield line! Read the clues and use logic to catch the culprit before kickoff.

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.

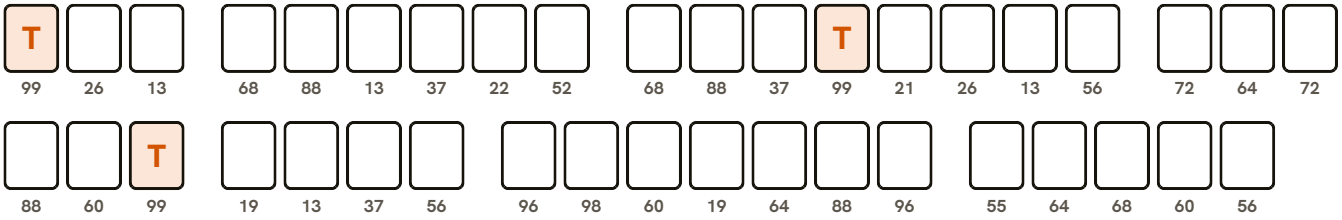
NAME	SPECIAL MOVE	LUCKY GEAR	THROWING HAND	HELMET VISOR	DISTRACTION
Aaron Rodgers	spin move	red cape	left handed	clear visor	squeaky shoes
Joe Burrow	power tackle	foam finger	left handed	black visor	loud whistle
Tua Tagovailoa	high jump	silver cleats	right handed	black visor	bright stadium lights
Amon Ra St Brown	high jump	red cape	right handed	clear visor	loud whistle
Derrick Henry	power tackle	gold helmet	left handed	black visor	bright stadium lights
Micah Parsons	power tackle	gold helmet	right handed	black visor	loud whistle
Jared Goff	spin move	foam finger	right handed	clear visor	bright stadium lights
Tyreek Hill	spin move	red cape	right handed	black visor	loud whistle
Josh Allen	spin move	foam finger	right handed	black visor	bright stadium lights
George Kittle	zig zag	gold helmet	right handed	black visor	bright stadium lights
CeeDee Lamb	turbo dash	silver cleats	right handed	black visor	bright stadium lights
Saquon Barkley	zig zag	gold helmet	left handed	clear visor	loud whistle
Nick Chubb	zig zag	glowing visor	right handed	tinted visor	bright stadium lights
Jalen Hurts	spin move	glowing visor	right handed	clear visor	loud whistle
Christian McCaffrey	spin move	foam finger	right handed	clear visor	loud whistle
TJ Watt	high jump	red cape	left handed	clear visor	bright stadium lights
Patrick Mahomes	spin move	foam finger	right handed	black visor	squeaky shoes
Justin Jefferson	spin move	foam finger	left handed	tinted visor	squeaky shoes
Lamar Jackson	power tackle	red cape	left handed	clear visor	bright stadium lights
Breece Hall	power tackle	silver cleats	right handed	tinted visor	bright stadium lights
Travis Kelce	zig zag	glowing visor	right handed	black visor	bright stadium lights

make your own at mathcrackers.com

CLUE 1 Place value

The scoreboard screen is flickering with tens and ones.

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



What number has 9 tens and 9 ones? ☐ → T

What number has 8 tens and 8 ones? ☐ → N

What number has 2 tens and 2 ones? ☐ → K

What number has 6 tens and 8 ones? ☐ → S

What number has 9 tens and 6 ones? ☐ → G

What number has 6 tens and 0 ones? ☐ → O

What number has 2 tens and 1 one? ☐ → C

What number has 1 ten and 9 ones? ☐ → W

What number has 5 tens and 5 ones? ☐ → V

What number has 6 tens and 4 ones? ☐ → I

What number has 9 tens and 8 ones? ☐ → L

What number has 5 tens and 6 ones? ☐ → R

What number has 2 tens and 6 ones? ☐ → H

What number has 1 ten and 3 ones? ☐ → E

What number has 5 tens and 2 ones? ☐ → Y

What number has 7 tens and 2 ones? ☐ → D

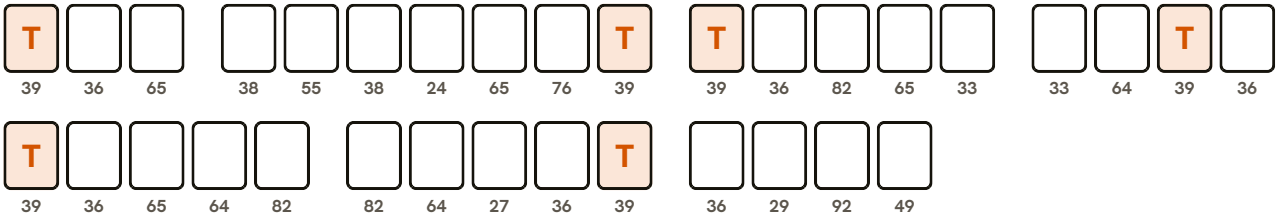
What number has 3 tens and 7 ones? ☐ → A

Scratch space:

CLUE 2 Addition

Coach Sam adds up footballs gathered from both end zones.

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



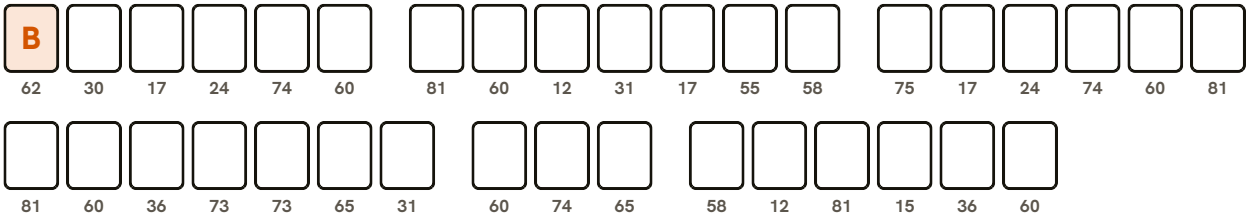
26 + 13 = ☐ → T	17 + 10 = ☐ → G	7 + 17 = ☐ → P
15 + 18 = ☐ → W	40 + 25 = ☐ → E	19 + 17 = ☐ → H
58 + 34 = ☐ → N	11 + 18 = ☐ → A	30 + 52 = ☐ → R
26 + 23 = ☐ → D	25 + 39 = ☐ → I	39 + 16 = ☐ → U
12 + 26 = ☐ → S	43 + 33 = ☐ → C	

Scratch space:

CLUE 3 Subtraction

> The equipment manager takes away broken gear from the bench.

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



81 - 19 = ☐ → **B**

86 - 26 = ☐ → **T**

101 - 26 = ☐ → **L**

47 - 23 = ☐ → **G**

102 - 28 = ☐ → **H**

39 - 24 = ☐ → **C**

47 - 35 = ☐ → **A**

91 - 33 = ☐ → **M**

75 - 39 = ☐ → **O**

75 - 10 = ☐ → **E**

106 - 25 = ☐ → **S**

103 - 30 = ☐ → **P**

57 - 40 = ☐ → **I**

32 - 1 = ☐ → **D**

77 - 22 = ☐ → **U**

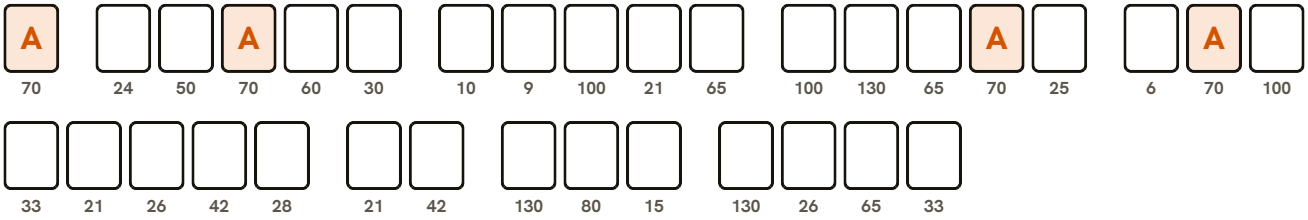
69 - 39 = ☐ → **R**

Scratch space:

CLUE 4 Skip counting

> The referee counts yards down the gridiron by tens.

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



Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, ___, 80, 90 ☐ → **A**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 ☐ → **B**

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, ___, 18, 21 ☐ → **E**

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, ___, 60, 70 ☐ → **L**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 ☐ → **P**

Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 ☐ → **I**

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

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

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, ___, 65, 70 ☐ → **C**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 ☐ → **R**

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

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

Scratch space:

CLUE 5 Missing addends - the last clue

> The team needs a full rack of helmets for kickoff.

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:

1 + ___ = 4 ☐	4 + ___ = 10 ☐	4 + ___ = 13 ☐	2 + ___ = 13 ☐
9 + ___ = 16 ☐	4 + ___ = 16 ☐	4 + ___ = 9 ☐	4 + ___ = 8 ☐
4 + ___ = 12 ☐	8 + ___ = 18 ☐		

7 + ___ = 9 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain ran a quick zig zag, then put on a gold helmet.
2. The villain executed a spin move, then put on a gold helmet.
3. The villain executed a spin move, then waved a foam finger.
4. The villain executed a spin move, then tied a red cape.
5. The villain executed a spin move, then laced up silver cleats.
6. The villain leaped with a high jump, then laced up silver cleats.
7. The villain used a turbo dash, then put on a gold helmet.
8. The villain made a power tackle, then tied a red cape.
9. The villain used a turbo dash, then laced up silver cleats.
10. The villain used a turbo dash, then tied a red cape.
11. The villain made a power tackle, then put on a gold helmet.
12. The villain leaped with a high jump, then clicked on a glowing visor.

TEACHER / PARENT

Answer Key

The Great Trophy Mystery

Culprit: George Kittle

zig zag · gold helmet · right handed · black visor · bright stadium lights

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

Clue 1 (Place value): "THE SNEAKY SNATCHER DID NOT WEAR GLOWING VISOR"

What number has 9 tens and 9 ones? = 99 (T) · What number has 8 tens and 8 ones? = 88 (N) · What number has 2 tens and 2 ones? = 22 (K) · What number has 6 tens and 8 ones? = 68 (S) · What number has 9 tens and 6 ones? = 96 (G) · What number has 6 tens and 0 ones? = 60 (O) · What number has 2 tens and 1 one? = 21 (C) · What number has 1 ten and 9 ones? = 19 (W) · What number has 5 tens and 5 ones? = 55 (V) · What number has 6 tens and 4 ones? = 64 (I) · What number has 9 tens and 8 ones? = 98 (L) · What number has 5 tens and 6 ones? = 56 (R) · What number has 2 tens and 6 ones? = 26 (H) · What number has 1 ten and 3 ones? = 13 (E) · What number has 5 tens and 2 ones? = 52 (Y) · What number has 7 tens and 2 ones? = 72 (D) · What number has 3 tens and 7 ones? = 37 (A)

Clue 2 (Addition): "THE SUSPECT THREW WITH THEIR RIGHT HAND"

26 + 13 = 39 (T) · 17 + 10 = 27 (G) · 7 + 17 = 24 (P) · 15 + 18 = 33 (W) · 40 + 25 = 65 (E) · 19 + 17 = 36 (H) · 58 + 34 = 92 (N) · 11 + 18 = 29 (A) · 30 + 52 = 82 (R) · 26 + 23 = 49 (D) · 25 + 39 = 64 (I) · 39 + 16 = 55 (U) · 12 + 26 = 38 (S) · 43 + 33 = 76 (C)

Clue 3 (Subtraction): "BRIGHT STADIUM LIGHTS STOPPED THE MASCOT"

81 - 19 = 62 (B) · 86 - 26 = 60 (T) · 101 - 26 = 75 (L) · 47 - 23 = 24 (G) · 102 - 28 = 74 (H) · 39 - 24 = 15 (C) · 47 - 35 = 12 (A) · 91 - 33 = 58 (M) · 75 - 39 = 36 (O) · 75 - 10 = 65 (E) · 106 - 25 = 81 (S) · 103 - 30 = 73 (P) · 57 - 40 = 17 (I) · 32 - 1 = 31 (D) · 77 - 22 = 55 (U) · 69 - 39 = 30 (R)

Clue 4 (Skip counting): "A BLACK VISOR STRAP WAS FOUND ON THE TURF"

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

Clue 5 (Missing addends): surviving statement is box 1 → George Kittle

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