



The Championship Trophy Caper

Grade 3 math · Place value, Skip counting, Bar models, Fractions of a number, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

Right before the big kickoff at Gridiron Stadium, someone snatched the Golden Football Trophy from the Head Coach locker! Solve the math clues to figure out who took it.

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 Playbook Thief is _____

Possible suspects

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

NAME	SPECIAL SKILL	LUCKY GEAR	THROWING HAND	HELMET STRIPE	DISTRACTION
TJ Watt	Spin Dodge	Red Wristband	Left Handed Thrower	Black Stripe	Loud Megaphone
Lamar Jackson	Cannon Throw	Neon Gloves	Left Handed Thrower	Black Stripe	Loud Megaphone
Myles Garrett	Cannon Throw	Gold Cleats	Left Handed Thrower	Black Stripe	Bright Flashlight
Joe Burrow	Power Tackle	Padded Vest	Left Handed Thrower	Blue Stripe	Bright Flashlight
Justin Herbert	High Leap	Red Wristband	Left Handed Thrower	Yellow Stripe	Squeaky Whistle
Stefon Diggs	Turbo Sprint	Gold Cleats	Left Handed Thrower	Black Stripe	Bright Flashlight
Cooper Kupp	Turbo Sprint	Gold Cleats	Right Handed Thrower	Yellow Stripe	Bright Flashlight
Deebo Samuel	Turbo Sprint	Red Wristband	Left Handed Thrower	Blue Stripe	Loud Megaphone
Derrick Henry	Power Tackle	Silver Helmet	Right Handed Thrower	Yellow Stripe	Squeaky Whistle
Travis Kelce	Turbo Sprint	Gold Cleats	Left Handed Thrower	Black Stripe	Loud Megaphone
Aaron Donald	Turbo Sprint	Gold Cleats	Left Handed Thrower	Yellow Stripe	Bright Flashlight
Patrick Mahomes	Power Tackle	Gold Cleats	Left Handed Thrower	Black Stripe	Loud Megaphone
Jalen Hurts	High Leap	Neon Gloves	Left Handed Thrower	Black Stripe	Loud Megaphone
Micah Parsons	Spin Dodge	Neon Gloves	Left Handed Thrower	Yellow Stripe	Squeaky Whistle
Nick Bosa	Cannon Throw	Padded Vest	Left Handed Thrower	Black Stripe	Loud Megaphone
Sauce Gardner	Spin Dodge	Gold Cleats	Right Handed Thrower	Black Stripe	Loud Megaphone
Christian McCaffrey	Cannon Throw	Silver Helmet	Left Handed Thrower	Yellow Stripe	Loud Megaphone
Justin Jefferson	High Leap	Padded Vest	Left Handed Thrower	Blue Stripe	Bright Flashlight
Dak Prescott	High Leap	Red Wristband	Left Handed Thrower	Black Stripe	Squeaky Whistle
Josh Allen	Power Tackle	Neon Gloves	Left Handed Thrower	Blue Stripe	Bright Flashlight
George Kittle	Power Tackle	Silver Helmet	Left Handed Thrower	Yellow Stripe	Loud Megaphone

CLUE 1 Place value

Check the digit values on the scoreboard clock to unlock the first clue.

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

T																			
700	4000	9000	90	30	9000	5000	8000	7000	90	30	60	60	500	9000	600	20	60	9000	90
		T																	
30	60	700	200	9000	5000	600	30	9000	60	30	2000	300	60	3000	9000	90			

What is the value of the 7 in 4,748? → **T**

What is the value of the 8 in 8,079? → **K**

What is the value of the 6 in 8,264? → **O**

What is the value of the 7 in 7,269? → **Y**

What is the value of the 2 in 213? → **W**

What is the value of the 5 in 5,637? → **A**

What is the value of the 5 in 562? → **P**

What is the value of the 9 in 6,292? → **S**

What is the value of the 2 in 523? → **D**

What is the value of the 9 in 9,630? → **E**

What is the value of the 3 in 6,352? → **L**

What is the value of the 2 in 2,915? → **G**

What is the value of the 4 in 54,021? → **H**

What is the value of the 3 in 93,982? → **V**

What is the value of the 3 in 1,738? → **N**

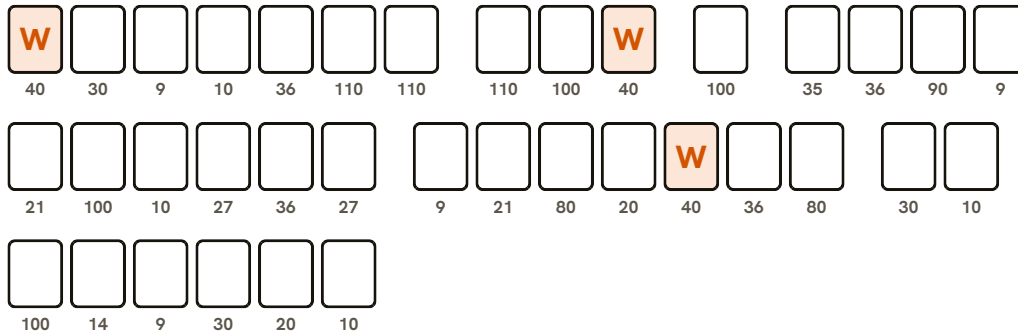
What is the value of the 6 in 687? → **R**

Scratch space:

CLUE 2 Skip counting

Skip count the yard markers along the sideline to uncover the second clue.

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, __, 50, 60 → **W**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **O**

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

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, __, 35, 40 → **I**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **E**

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **T**

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **C**

Scratch space:

CLUE 3

Bar model word problems

Compare the lengths of practice drills using a bar model to reveal the third clue.

Draw a bar model to solve each word problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with L A P H N .

18 42 29 8 56 40 16 42 40

Quarterback shares 216 cleats equally among 12 teams. How many cleats does each team get?

draw a bar model

Answer: → L

Quarterback has 7 times as many jerseys as a teammate. The teammate has 8 jerseys. How many jerseys does Quarterback have?

draw a bar model

Answer: → M

Quarterback has 8 times as many helmets as a teammate. The teammate has 5 helmets. How many helmets does Quarterback have?

draw a bar model

Answer: → E

Quarterback has 7 times as many helmets as a teammate. The teammate has 6 helmets. How many helmets does Quarterback have?

draw a bar model

Answer: → O

Quarterback shares 64 cleats equally among 4 teams. How many cleats does each team get?

draw a bar model

Answer: → G

The red team has 36 helmets and the blue team has 28 helmets. How many more helmets does the red team have?

draw a bar model

Answer: → D

The red team has 63 water bottles and the blue team has 34 water bottles. How many more water bottles does the red team have?

draw a bar model

Answer: → U

Fractions of a number

Find a fraction of the total footballs in the equipment bin to get the fourth clue.

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

Diagram illustrating a sequence of numbers arranged in two rows of boxes. The top row contains 14 boxes, with the first and 11th boxes highlighted in orange and labeled 'F'. The bottom row contains 12 boxes.

Top Row (14 boxes):

- Box 1 (Orange, F): 38
- Box 2: 13
- Box 3: 10
- Box 4: 17
- Box 5: 15
- Box 6: 5
- Box 7: 23
- Box 8: 5
- Box 9: 24
- Box 10: 17
- Box 11 (Orange, F): 26
- Box 12: 7
- Box 13: 30
- Box 14: 24
- Box 15: 23

Bottom Row (12 boxes):

- Box 1: 5
- Box 2: 32
- Box 3: 27
- Box 4: 5
- Box 5: 7
- Box 6: 19
- Box 7: 6
- Box 8: 26
- Box 9: 31
- Box 10: 24
- Box 11: 23
- Box 12: 37

$\frac{1}{4}$ of 152 = $\rightarrow$ **F**

5/6 of 12 = → **U**

$\frac{1}{6}$ of 192 = $\rightarrow$ **B**

$$2/10 \text{ of } 115 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$\frac{1}{6} \text{ of } 90 = \boxed{} \rightarrow \boxed{\text{D}}$$

$2/8$ of $24 = \square \rightarrow \boxed{\text{S}}$

$$1/6 \text{ of } 78 = \boxed{} \rightarrow \boxed{\text{O}}$$

$4/6$ of $36 = \boxed{} \rightarrow \boxed{\text{I}}$

$$1/2 \text{ of } 38 = \boxed{} \rightarrow \boxed{\text{K}}$$

5/10 of 10 = → **A**

$\frac{3}{4}$ of 40 = $\rightarrow$ **H**

$2/3$ of 39 = $\rightarrow$ **T**

$\frac{1}{4}$ of 108 = $\rightarrow$ **L**

3/6 of 34 = → **N**

$\frac{1}{4}$ of 28 = $\rightarrow$ **C**

$$3/6 \text{ of } 62 = \boxed{} \rightarrow \boxed{\text{R}}$$

$3/8$ of 96 = $\rightarrow$ **M**

$$1/2 \text{ of } 74 = \boxed{} \rightarrow \boxed{\text{E}}$$

Scratch space:

CLUE 5**Missing addends - the last clue**

Solve the missing addend in the play count to find 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:

$10 + \underline{\quad} = 11$

$1 + \underline{\quad} = 7$

$4 + \underline{\quad} = 11$

$1 + \underline{\quad} = 4$

$3 + \underline{\quad} = 15$

$2 + \underline{\quad} = 10$

$10 + \underline{\quad} = 20$

$4 + \underline{\quad} = 8$

$2 + \underline{\quad} = 11$

$2 + \underline{\quad} = 4$

$8 + \underline{\quad} = 19$

Step 2 - cross out the sentence with each answer:

1. The villain sprints down field, then snitches gold cleats.
2. The villain dashes past defense, then snitches gold cleats.
3. The villain tackles the dummy, then steals padded vest.
4. The villain dashes past defense, then swipes silver helmet.
5. The villain tackles the dummy, then snitches gold cleats.
6. The villain launches long passes, then steals padded vest.
7. The villain dashes past defense, then takes red wristband.
8. The villain sprints down field, then grabs neon gloves.
9. The villain dashes past defense, then grabs neon gloves.
10. The villain sprints down field, then steals padded vest.
11. The villain leaps over hurdles, then snitches gold cleats.
12. The villain tackles the dummy, then swipes silver helmet.

Answer Key

The Championship Trophy Caper

Culprit: Patrick Mahomes

Power Tackle · Gold Cleats · Left Handed Thrower · Black Stripe · Loud Megaphone

Trail: Start 21 → Clue 1 17 → Clue 2 14 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SNEAKY SNOOPER DOES NOT WEAR NEON GLOVES"

What is the value of the 7 in 4,748? = 700 (T) · What is the value of the 8 in 8,079? = 8000 (K) · What is the value of the 6 in 8,264? = 60 (O) · What is the value of the 7 in 7,269? = 7000 (Y) · What is the value of the 2 in 213? = 200 (W) · What is the value of the 5 in 5,637? = 5000 (A) · What is the value of the 5 in 562? = 500 (P) · What is the value of the 9 in 6,292? = 90 (S) · What is the value of the 2 in 523? = 20 (D) · What is the value of the 9 in 9,630? = 9000 (E) · What is the value of the 3 in 6,352? = 300 (L) · What is the value of the 2 in 2,915? = 2000 (G) · What is the value of the 4 in 54,021? = 4000 (H) · What is the value of the 3 in 93,982? = 3000 (V) · What is the value of the 3 in 1,738? = 30 (N) · What is the value of the 6 in 687? = 600 (R)

Clue 2 (Skip counting): "WITNESS SAW A LEFT HANDED THROWER IN ACTION"

Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 = 40 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, __, 35, 40 = 30 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (E) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (F) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (C)

Clue 3 (Bar model word problems): "LOUD MEGAPHONE"

Quarterback shares 216 cleats equally among 12 teams. How many cleats does each team get? = 18 (L) · Quarterback has 7 times as many jerseys as a teammate. The teammate has 8 jerseys. How many jerseys does Quarterback have? = 56 (M) · Quarterback has 8 times as many helmets as a teammate. The teammate has 5 helmets. How many helmets does Quarterback have? = 40 (E) · Quarterback has 7 times as many helmets as a teammate. The teammate has 6 helmets. How many helmets does Quarterback have? = 42 (O) · Quarterback shares 64 cleats equally among 4 teams. How many cleats does each team get? = 16 (G) · The red team has 36 helmets and the blue team has 28 helmets. How many more helmets does the red team have? = 8 (D) · The red team has 63 water bottles and the blue team has 34 water bottles. How many more water bottles does the red team have? = 29 (U)

Clue 4 (Fractions of a number): "FOUND A PAINT CHIP FROM A BLACK STRIPE"

$\frac{1}{4}$ of 152 = 38 (F) · $\frac{5}{6}$ of 12 = 10 (U) · $\frac{1}{6}$ of 192 = 32 (B) · $\frac{2}{10}$ of 115 = 23 (P) · $\frac{1}{6}$ of 90 = 15 (D) · $\frac{2}{8}$ of 24 = 6 (S) · $\frac{1}{6}$ of 78 = 13 (O) · $\frac{4}{6}$ of 36 = 24 (I) · $\frac{1}{2}$ of 38 = 19 (K) · $\frac{5}{10}$ of 10 = 5 (A) · $\frac{3}{4}$ of 40 = 30 (H) · $\frac{2}{3}$ of 39 = 26 (T) · $\frac{1}{4}$ of 108 = 27 (L) · $\frac{3}{6}$ of 34 = 17 (N) · $\frac{1}{4}$ of 28 = 7 (C) · $\frac{3}{6}$ of 62 = 31 (R) · $\frac{3}{8}$ of 96 = 36 (M) · $\frac{1}{2}$ of 74 = 37 (E)

Clue 5 (Missing addends): surviving statement is box 5 → Patrick Mahomes

$10 + \underline{\quad} = 11 = 1$ · $1 + \underline{\quad} = 7 = 6$ · $4 + \underline{\quad} = 11 = 7$ · $1 + \underline{\quad} = 4 = 3$ · $3 + \underline{\quad} = 15 = 12$ · $2 + \underline{\quad} = 10 = 8$ · $10 + \underline{\quad} = 20 = 10$ · $4 + \underline{\quad} = 8 = 4$ · $2 + \underline{\quad} = 11 = 9$ · $2 + \underline{\quad} = 4 = 2$ · $8 + \underline{\quad} = 19 = 11$