



The Missing Gold Whistle

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

Detective: _____ Date: _____

Just minutes before kickoff at the big rivalry game, the head referee discovered that the solid gold coin used for the coin toss was gone! Clues were left behind across the field.

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	GEAR SPECIAL	KICKING FOOT	HAIRSTYLE	DISTRACTION
Travis Kelce	Quarterback Sneak	Captain Armband	Right Footed	Ponytail	Loud Whistle
Patrick Mahomes	Quarterback Sneak	Padded Helmet	Right Footed	Curly Hair	Loud Whistle
Kylian Mbappe	Bicycle Kick	Neon Cleats	Left Footed	Buzz Cut	Squeaky Shoes
Saquon Barkley	Curved Free Kick	Padded Helmet	Right Footed	Curly Hair	Squeaky Shoes
Aaron Donald	Power Tackle	Golden Gloves	Right Footed	Curly Hair	Loud Whistle
Christian McCaffrey	Power Tackle	Padded Helmet	Right Footed	Buzz Cut	Loud Whistle
Lionel Messi	Hail Mary Pass	Grip Gloves	Left Footed	Ponytail	Bright Flag
Justin Jefferson	Curved Free Kick	Golden Gloves	Right Footed	Buzz Cut	Squeaky Shoes
Sam Kerr	Power Tackle	Padded Helmet	Right Footed	Curly Hair	Loud Whistle
Deebo Samuel	Quarterback Sneak	Captain Armband	Right Footed	Curly Hair	Bright Flag
Neymar Jr	Bicycle Kick	Grip Gloves	Right Footed	Curly Hair	Loud Whistle
Nick Bosa	Hail Mary Pass	Neon Cleats	Right Footed	Curly Hair	Bright Flag
Jude Bellingham	Power Tackle	Golden Gloves	Left Footed	Buzz Cut	Loud Whistle
Harry Kane	Hail Mary Pass	Neon Cleats	Right Footed	Ponytail	Bright Flag
Josh Allen	Power Tackle	Padded Helmet	Left Footed	Curly Hair	Loud Whistle
Cristiano Ronaldo	Bicycle Kick	Golden Gloves	Right Footed	Curly Hair	Squeaky Shoes
Christian Pulisic	Quarterback Sneak	Neon Cleats	Right Footed	Curly Hair	Squeaky Shoes
Megan Rapinoe	Curved Free Kick	Neon Cleats	Right Footed	Curly Hair	Loud Whistle
Tyreek Hill	Hail Mary Pass	Neon Cleats	Right Footed	Ponytail	Loud Whistle
Lamar Jackson	Curved Free Kick	Padded Helmet	Left Footed	Ponytail	Squeaky Shoes
Derrick Henry	Bicycle Kick	Neon Cleats	Left Footed	Ponytail	Loud Whistle

CLUE 1
Multiplication facts (1-12)

The equipment manager counted balls in neat equal rows on the field to crack the first code.

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

T																T
50	121	55	80	100	24	24	54	100	56	21	99	55	144	56	99	50
15	55	54	77	81	99	24	21	55	56	81	24	99	80	55	144	

$10 \times 5 = \square \rightarrow \text{T}$

$9 \times 6 = \square \rightarrow \text{A}$

$12 \times 12 = \square \rightarrow \text{S}$

$7 \times 3 = \square \rightarrow \text{D}$

$11 \times 7 = \square \rightarrow \text{R}$

$11 \times 9 = \square \rightarrow \text{O}$

$11 \times 11 = \square \rightarrow \text{H}$

$6 \times 4 = \square \rightarrow \text{L}$

$10 \times 10 = \square \rightarrow \text{I}$

$5 \times 11 = \square \rightarrow \text{E}$

$5 \times 3 = \square \rightarrow \text{W}$

$10 \times 8 = \square \rightarrow \text{V}$

$7 \times 8 = \square \rightarrow \text{N}$

$9 \times 9 = \square \rightarrow \text{G}$

Scratch space:

CLUE 2 Place value

The detective examined the digital scoreboard display to find hidden place values in the score.

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

T									T								T		
6000	80	90	700	20	700	8000	90	9000	6000	70	50	9000	70	90	500	6000	80	90	

							T				T			
400	4000	600	600	40	50	200	80	6000	800	1000	1000	6000	90	500

What is the value of the 6 in 46,870?

→

T

What is the value of the 4 in 54,955?

→

A

What is the value of the 1 in 1,546?

→

O

What is the value of the 5 in 4,578?

→

D

What is the value of the 5 in 6,752?

→

I

What is the value of the 8 in 18,709?

→

P

What is the value of the 7 in 730?

→

S

What is the value of the 6 in 4,683?

→

L

What is the value of the 8 in 6,681?

→

H

What is the value of the 2 in 4,526?

→

U

What is the value of the 7 in 1,372?

→

K

What is the value of the 9 in 292?

→

E

What is the value of the 4 in 748?

→

R

What is the value of the 4 in 6,477?

→

B

What is the value of the 9 in 9,838?

→

C

What is the value of the 2 in 3,267?

→

G

What is the value of the 8 in 834?

→

F

Scratch space:

CLUE 3

Word problems

Coach Alex checked the roster sheets and gear totals to solve a locker room riddle.

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

Someone scared the villain off with

L							S	T	L	E
75	30	11	66	28	18	60			75	

.

There were 96 field markers. 21 were used up. How many field markers are left?

Answer: → **L**

Equipment Director lined up 3 rows of 10 sports drinks. How many sports drinks in all?

Answer: → **O**

Equipment Director lined up 7 rows of 4 soccer balls. How many soccer balls in all?

Answer: → **W**

Equipment Director lined up 11 rows of 6 pylon cones. How many pylon cones in all?

Answer: → **D**

Equipment Director lined up 10 rows of 6 soccer balls. How many soccer balls in all?

Answer: → **I**

Equipment Director lined up 2 rows of 9 soccer balls. How many soccer balls in all?

Answer: → **H**

There were 19 field markers. 8 were used up. How many field markers are left?

Answer: → **U**

Scratch space:

CLUE 4

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

500 90 9000 6000 50 5000 60 500 900 6000 4000 8000 6000 500 40 20 400 500 4000

30 40 8000 60 7000 8000 9000 6000 600

Round 512 to the nearest hundred → **A**

Round 9,303 to the nearest thousand $\rightarrow$ **U**

Round 20 to the nearest ten → **D**

Round 4,183 to the nearest thousand →

Round 436 to the nearest hundred → **W**

Round 59 to the nearest ten $\rightarrow$ **H**

Round 7,287 to the nearest thousand → **E**

Round 4,553 to the nearest thousand →

Round 561 to the nearest hundred → **F**

Round 94 to the nearest ten $\rightarrow$ **C**

Round 6,341 to the nearest thousand → **R**

Round 940 to the nearest hundred $\rightarrow$

Round 50 to the nearest ten $\rightarrow$ **L**

Round 8,273 to the nearest thousand → **T**

Round 33 to the nearest ten $\rightarrow$

Round 39 to the nearest ten → **N**

Scratch space:

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

The referee shared official whistles equally among the crew to uncover the final key.

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:

$36 \div 3 = \boxed{}$

$24 \div 3 = \boxed{}$

$8 \div 4 = \boxed{}$

$20 \div 5 = \boxed{}$

$21 \div 7 = \boxed{}$

$90 \div 10 = \boxed{}$

$1 \div 1 = \boxed{}$

$84 \div 12 = \boxed{}$

$70 \div 7 = \boxed{}$

$22 \div 2 = \boxed{}$

$72 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain executed a clean bicycle kick, then strapped on a padded helmet.
2. The villain executed a clean bicycle kick, then tightened their grip gloves.
3. The villain ran a quick quarterback sneak, then adjusted their golden gloves.
4. The villain made a powerful goal line tackle, then adjusted the captain armband.
5. The villain ran a quick quarterback sneak, then strapped on a padded helmet.
6. The villain threw a long hail mary pass, then adjusted the captain armband.
7. The villain executed a clean bicycle kick, then adjusted the captain armband.
8. The villain made a powerful goal line tackle, then strapped on a padded helmet.
9. The villain threw a long hail mary pass, then tightened their grip gloves.
10. The villain threw a long hail mary pass, then strapped on a padded helmet.
11. The villain threw a long hail mary pass, then flashed their neon cleats.
12. The villain curled a free kick over the wall, then flashed their neon cleats.

Answer Key

The Missing Gold Whistle

Culprit: Patrick Mahomes

Quarterback Sneak · Padded Helmet · Right Footed · Curly Hair · Loud Whistle

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT WEAR GOLDEN GLOVES"

$10 \times 5 = 50$ (T) · $9 \times 6 = 54$ (A) · $12 \times 12 = 144$ (S) · $7 \times 3 = 21$ (D) · $11 \times 7 = 77$ (R) · $11 \times 9 = 99$ (O) · $11 \times 11 = 121$ (H) · $6 \times 4 = 24$ (L) · $10 \times 10 = 100$ (I) · $5 \times 11 = 55$ (E) · $5 \times 3 = 15$ (W) · $10 \times 8 = 80$ (V) · $7 \times 8 = 56$ (N) · $9 \times 9 = 81$ (G)

Clue 2 (Place value): "THE SUSPECT KICKED THE BALL RIGHT FOOTED"

What is the value of the 6 in 46,870? = 6000 (T) · What is the value of the 4 in 54,955? = 4000 (A) · What is the value of the 1 in 1,546? = 1000 (O) · What is the value of the 5 in 4,578? = 500 (D) · What is the value of the 5 in 6,752? = 50 (I) · What is the value of the 8 in 18,709? = 8000 (P) · What is the value of the 7 in 730? = 700 (S) · What is the value of the 6 in 4,683? = 600 (L) · What is the value of the 8 in 6,681? = 80 (H) · What is the value of the 2 in 4,526? = 20 (U) · What is the value of the 7 in 1,372? = 70 (K) · What is the value of the 9 in 292? = 90 (E) · What is the value of the 4 in 748? = 40 (R) · What is the value of the 4 in 6,477? = 400 (B) · What is the value of the 9 in 9,838? = 9000 (C) · What is the value of the 2 in 3,267? = 200 (G) · What is the value of the 8 in 834? = 800 (F)

Clue 3 (Word problems): "LOUD WHISTLE"

There were 96 field markers. 21 were used up. How many field markers are left? = 75 (L) · Equipment Director lined up 3 rows of 10 sports drinks. How many sports drinks in all? = 30 (O) · Equipment Director lined up 7 rows of 4 soccer balls. How many soccer balls in all? = 28 (W) · Equipment Director lined up 11 rows of 6 pylon cones. How many pylon cones in all? = 66 (D) · Equipment Director lined up 10 rows of 6 soccer balls. How many soccer balls in all? = 60 (I) · Equipment Director lined up 2 rows of 9 soccer balls. How many soccer balls in all? = 18 (H) · There were 19 field markers. 8 were used up. How many field markers are left? = 11 (U)

Clue 4 (Rounding): "A CURLY HAIR STRAND WAS ON THE TURF"

Round 512 to the nearest hundred = 500 (A) · Round 9,303 to the nearest thousand = 9000 (U) · Round 20 to the nearest ten = 20 (D) · Round 4,183 to the nearest thousand = 4000 (S) · Round 436 to the nearest hundred = 400 (W) · Round 59 to the nearest ten = 60 (H) · Round 7,287 to the nearest thousand = 7000 (E) · Round 4,553 to the nearest thousand = 5000 (Y) · Round 561 to the nearest hundred = 600 (F) · Round 94 to the nearest ten = 90 (C) · Round 6,341 to the nearest thousand = 6000 (R) · Round 940 to the nearest hundred = 900 (I) · Round 50 to the nearest ten = 50 (L) · Round 8,273 to the nearest thousand = 8000 (T) · Round 33 to the nearest ten = 30 (O) · Round 39 to the nearest ten = 40 (N)

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

$36 \div 3 = 12$ · $24 \div 3 = 8$ · $8 \div 4 = 2$ · $20 \div 5 = 4$ · $21 \div 7 = 3$ · $90 \div 10 = 9$ · $1 \div 1 = 1$ · $84 \div 12 = 7$ · $70 \div 7 = 10$ · $22 \div 2 = 11$ · $72 \div 12 = 6$