



The Case of the Missing Golden Boot

Grade 3 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ Date: _____

Just before the championship match, someone snuck into the Greenfield Soccer Complex and swiped the Golden Boot trophy! The Team Captain is devastated. We have twenty-four suspects from the tournament guest roster. Tie your shoelaces, grab your whistle, and let's track down the thief!

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 cleat thief is _____

Possible suspects

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

NAME	SOCCER MOVE	JERSEY EMBLEM	PLAYER CATEGORY	HEAD ACCESSORY	DISTRACTION
Keeper	lightning dribble	lightning bolt	boy	spiky mohawk	shiny coin
Enzo	header smash	speedy falcon	girl	backward cap	squeaky whistle
Roxy	bicycle kick	lightning bolt	boy	spiky mohawk	squeaky whistle
Silas	lightning dribble	star shield	girl	neon headband	squeaky whistle
Nico	lightning dribble	flaming soccer ball	boy	neon headband	muddy puddle
Dash	goalie dive	flaming soccer ball	boy	neon headband	shiny coin
Dillon	lightning dribble	flaming soccer ball	boy	backward cap	muddy puddle
Striker	cannon shot	star shield	boy	backward cap	squeaky whistle
Gaby	cannon shot	star shield	boy	backward cap	shiny coin
Zoe	goalie dive	speedy falcon	boy	neon headband	shiny coin
Penny	goalie dive	flaming soccer ball	boy	spiky mohawk	muddy puddle
Chloe	goalie dive	flaming soccer ball	boy	backward cap	squeaky whistle
Ziggy	cannon shot	speedy falcon	boy	spiky mohawk	squeaky whistle
Piper	goalie dive	roaring tiger	boy	backward cap	squeaky whistle
Maya	header smash	lightning bolt	boy	backward cap	squeaky whistle
Buster	cannon shot	speedy falcon	boy	spiky mohawk	muddy puddle
Mia	goalie dive	lightning bolt	boy	neon headband	muddy puddle
Sasha	lightning dribble	star shield	boy	spiky mohawk	shiny coin
Boots	bicycle kick	star shield	boy	backward cap	shiny coin
Leo	goalie dive	lightning bolt	girl	neon headband	muddy puddle
Kofi	cannon shot	lightning bolt	boy	backward cap	squeaky whistle

CLUE 1 Rounding

The digital scoreboard got bumped during warmups and rounded the team jersey numbers to the nearest ten to give us our first hint.

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

N						N										
70	4000	400	5000	50	8000	90	70	60	600	50	5000	5000	80	8000	600	5000
4000	70	500	80	800	300	80	700									

Round 72 to the nearest ten → **N**

Round 4,938 to the nearest thousand → **L**

Round 670 to the nearest hundred → **Y**

Round 824 to the nearest hundred → **R**

Round 50 to the nearest ten → **A**

Round 8,178 to the nearest thousand → **M**

Round 4,432 to the nearest thousand → **O**

Round 78 to the nearest ten → **E**

Round 466 to the nearest hundred → **J**

Round 564 to the nearest hundred → **B**

Round 289 to the nearest hundred → **S**

Round 63 to the nearest ten → **G**

Round 93 to the nearest ten → **I**

Round 397 to the nearest hundred → **F**

Scratch space:

CLUE 2

Addition

We counted the training cones left scattered on the turf and added them up to find the suspect's track.

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

T								T							
888	812	521	907	943	907	478	521	525	888	845	907	270	485	772	915

$342 + 546 = \square \rightarrow \boxed{\text{T}}$

$620 + 323 = \square \rightarrow \boxed{\text{U}}$

$338 + 147 = \square \rightarrow \boxed{\text{B}}$

$162 + 359 = \square \rightarrow \boxed{\text{E}}$

$502 + 405 = \square \rightarrow \boxed{\text{S}}$

$328 + 484 = \square \rightarrow \boxed{\text{H}}$

$124 + 146 = \square \rightarrow \boxed{\text{A}}$

$314 + 531 = \square \rightarrow \boxed{\text{I}}$

$220 + 305 = \square \rightarrow \boxed{\text{C}}$

$491 + 281 = \square \rightarrow \boxed{\text{O}}$

$429 + 486 = \square \rightarrow \boxed{\text{Y}}$

$297 + 181 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 3 Subtraction

The team started with twenty match balls but some are missing. We subtracted the remaining balls to find a key clue left behind.

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

S				S															
893	697	683	301	893	697	683	252	721	480	472	893	437	229	721	480	847	407		

			S			
839	252	271	893	697	425	721

$966 - 73 = \square \rightarrow$ S	$965 - 126 = \square \rightarrow$ W	$661 - 360 = \square \rightarrow$ P
$803 - 366 = \square \rightarrow$ Q	$705 - 298 = \square \rightarrow$ Y	$554 - 129 = \square \rightarrow$ L
$383 - 112 = \square \rightarrow$ I	$567 - 315 = \square \rightarrow$ H	$403 - 174 = \square \rightarrow$ U
$955 - 234 = \square \rightarrow$ E	$1190 - 343 = \square \rightarrow$ K	$913 - 216 = \square \rightarrow$ T
$574 - 102 = \square \rightarrow$ R	$647 - 167 = \square \rightarrow$ A	$769 - 86 = \square \rightarrow$ O

Scratch space:

Multiplication facts (1-12)

The gear bags were lined up in equal rows next to the bleachers. We multiplied the rows to check the total and found a hair clue.

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

A number line from 0 to 100 with increments of 8. The numbers are: 0, 8, 16, 24, 32, 40, 48, 56, 64, 72, 80, 88, 96, 100. The number 28 is highlighted in orange and labeled 'L'. The number 84 is highlighted in orange and labeled 'L'.

$$7 \times 4 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$11 \times 8 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$4 \times 9 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$1 \times 1 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$10 \times 8 = \boxed{} \rightarrow \boxed{0}$$

$$8 \times 7 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$7 \times 6 = \boxed{} \rightarrow \boxed{\mathbf{S}}$$

$$3 \times 3 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$9 \times 10 = \boxed{} \rightarrow \boxed{\mathbf{Y}}$$

$1 \times 8 = \boxed{} \rightarrow \boxed{\text{T}}$

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

$4 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$$8 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{W}}$$

$7 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$8 \times 2 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$8 \times 3 = \boxed{} \rightarrow \boxed{\text{C}}$

Scratch space:

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

We had to share the orange slices equally among the referee crew. Sharing them out in equal groups revealed our final piece of evidence.

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:

$27 \div 9 = \boxed{}$

$5 \div 1 = \boxed{}$

$77 \div 7 = \boxed{}$

$28 \div 4 = \boxed{}$

$24 \div 4 = \boxed{}$

$11 \div 11 = \boxed{}$

$63 \div 7 = \boxed{}$

$10 \div 5 = \boxed{}$

$48 \div 4 = \boxed{}$

$32 \div 8 = \boxed{}$

$100 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain shows a lightning dribble, then flashes a lightning bolt.
2. The villain does a header smash, then spins a flaming soccer ball.
3. The villain does a header smash, then flashes a lightning bolt.
4. The villain shows a lightning dribble, then spins a flaming soccer ball.
5. The villain makes a goalie dive, then mimics a roaring tiger.
6. The villain blasts a cannon shot, then points to a speedy falcon.
7. The villain does a header smash, then points to a speedy falcon.
8. The villain blasts a cannon shot, then flashes a lightning bolt.
9. The villain shows a lightning dribble, then points to a speedy falcon.
10. The villain makes a goalie dive, then points to a speedy falcon.
11. The villain blasts a cannon shot, then polishes a star shield.
12. The villain makes a goalie dive, then flashes a lightning bolt.

Answer Key

The Case of the Missing Golden Boot

Culprit: Kofi

cannon shot · lightning bolt · boy · backward cap · squeaky whistle

Trail: Start 21 → Clue 1 16 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "NO FLAMING BALL EMBLEM ON JERSEY"

Round 72 to the nearest ten = 70 (N) · Round 4,938 to the nearest thousand = 5000 (L) · Round 670 to the nearest hundred = 700 (Y) · Round 824 to the nearest hundred = 800 (R) · Round 50 to the nearest ten = 50 (A) · Round 8,178 to the nearest thousand = 8000 (M) · Round 4,432 to the nearest thousand = 4000 (O) · Round 78 to the nearest ten = 80 (E) · Round 466 to the nearest hundred = 500 (J) · Round 564 to the nearest hundred = 600 (B) · Round 289 to the nearest hundred = 300 (S) · Round 63 to the nearest ten = 60 (G) · Round 93 to the nearest ten = 90 (I) · Round 397 to the nearest hundred = 400 (F)

Clue 2 (Addition): "THE SUSPECT IS A BOY"

$342 + 546 = 888$ (T) · $620 + 323 = 943$ (U) · $338 + 147 = 485$ (B) · $162 + 359 = 521$ (E) · $502 + 405 = 907$ (S) · $328 + 484 = 812$ (H) · $124 + 146 = 270$ (A) · $314 + 531 = 845$ (I) · $220 + 305 = 525$ (C) · $491 + 281 = 772$ (O) · $429 + 486 = 915$ (Y) · $297 + 181 = 478$ (P)

Clue 3 (Subtraction): "STOPS TO HEAR SQUEAKY WHISTLE"

$966 - 73 = 893$ (S) · $965 - 126 = 839$ (W) · $661 - 360 = 301$ (P) · $803 - 366 = 437$ (Q) · $705 - 298 = 407$ (Y) · $554 - 129 = 425$ (L) · $383 - 112 = 271$ (I) · $567 - 315 = 252$ (H) · $403 - 174 = 229$ (U) · $955 - 234 = 721$ (E) · $1190 - 343 = 847$ (K) · $913 - 216 = 697$ (T) · $574 - 102 = 472$ (R) · $647 - 167 = 480$ (A) · $769 - 86 = 683$ (O)

Clue 4 (Multiplication facts (1-12)): "LOST A BACKWARD CAP BY THE GOAL"

$7 \times 4 = 28$ (L) · $11 \times 8 = 88$ (D) · $4 \times 9 = 36$ (K) · $1 \times 1 = 1$ (E) · $10 \times 8 = 80$ (O) · $8 \times 7 = 56$ (H) · $7 \times 6 = 42$ (S) · $3 \times 3 = 9$ (P) · $9 \times 10 = 90$ (Y) · $1 \times 8 = 8$ (T) · $7 \times 11 = 77$ (R) · $4 \times 1 = 4$ (B) · $8 \times 8 = 64$ (W) · $7 \times 12 = 84$ (A) · $8 \times 2 = 16$ (G) · $8 \times 3 = 24$ (C)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Kofi

$27 \div 9 = 3$ · $5 \div 1 = 5$ · $77 \div 7 = 11$ · $28 \div 4 = 7$ · $24 \div 4 = 6$ · $11 \div 11 = 1$ · $63 \div 7 = 9$ · $10 \div 5 = 2$ · $48 \div 4 = 12$ · $32 \div 8 = 4$ · $100 \div 10 = 10$