



The Great Golden Trophy Mystery

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

Detective: _____ Date: _____

During the championship final at Starlight Soccer Stadium, someone snuck into the trophy room and stole the Golden Cleat Trophy! Detective Sam arrives to solve the mystery before the trophy presentation.

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 Thief 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	SPECIAL GEAR	KICKING FOOT	HAIRSTYLE	DISTRACTION
Jamal	Curved Corner	Magnet Cleats	Left Footed	Spiky Hair	Whistle Blast
Bruno	Curved Corner	Magnet Cleats	Left Footed	Headband	Whistle Blast
Sophia	Power Strike	Turbo Socks	Right Footed	Spiky Hair	Whistle Blast
Cristiano	Power Strike	Titanium Shin Guard	Left Footed	Braided Hair	Bright Floodlights
Trinity	Rainbow Flick	Glowing Laces	Left Footed	Spiky Hair	Whistle Blast
Jude	Speed Dribble	Padded Gloves	Right Footed	Braided Hair	Bright Floodlights
Virgil	Curved Corner	Turbo Socks	Left Footed	Spiky Hair	Muddy Field
Pedri	Curved Corner	Glowing Laces	Right Footed	Spiky Hair	Muddy Field
Alphonso	Power Strike	Titanium Shin Guard	Right Footed	Headband	Bright Floodlights
Erling	Rainbow Flick	Glowing Laces	Right Footed	Spiky Hair	Whistle Blast
Bukayo	Speed Dribble	Turbo Socks	Right Footed	Braided Hair	Whistle Blast
Son	Power Strike	Titanium Shin Guard	Right Footed	Spiky Hair	Muddy Field
Cole	Speed Dribble	Glowing Laces	Right Footed	Spiky Hair	Whistle Blast
Chloe	Speed Dribble	Magnet Cleats	Right Footed	Spiky Hair	Whistle Blast
Megan	Power Strike	Turbo Socks	Right Footed	Headband	Whistle Blast
Gavi	Power Strike	Magnet Cleats	Right Footed	Braided Hair	Whistle Blast
Marta	Power Strike	Titanium Shin Guard	Right Footed	Headband	Whistle Blast
Marcus	Power Strike	Padded Gloves	Left Footed	Headband	Bright Floodlights
Leo	Power Strike	Padded Gloves	Right Footed	Spiky Hair	Whistle Blast
Luka	Power Strike	Glowing Laces	Right Footed	Braided Hair	Muddy Field
Kylian	Bicycle Kick	Magnet Cleats	Left Footed	Headband	Bright Floodlights

CLUE 1
Multiplication facts (1-12)

Coach Alex counts equal rows of soccer balls sitting on the rack to gather quick clues.

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

T										T									
36	2	56	8	35	56	12	100	120	36	2	66	56	44	84	81	56	8		
		T																	
35	81	36	30	8	56	45	12	84	84	56	84	80	99	81	110	56	8		

$4 \times 9 = \square \rightarrow \text{**T**}$

$12 \times 7 = \square \rightarrow \text{**D**}$

$11 \times 9 = \square \rightarrow \text{**L**}$

$8 \times 7 = \square \rightarrow \text{**E**}$

$6 \times 11 = \square \rightarrow \text{**I**}$

$10 \times 12 = \square \rightarrow \text{**Y**}$

$6 \times 5 = \square \rightarrow \text{**U**}$

$11 \times 10 = \square \rightarrow \text{**V**}$

$1 \times 2 = \square \rightarrow \text{**H**}$

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

$10 \times 10 = \square \rightarrow \text{**K**}$

$8 \times 1 = \square \rightarrow \text{**S**}$

$5 \times 7 = \square \rightarrow \text{**N**}$

$9 \times 5 = \square \rightarrow \text{**P**}$

$11 \times 4 = \square \rightarrow \text{**F**}$

$2 \times 6 = \square \rightarrow \text{**A**}$

$10 \times 8 = \square \rightarrow \text{**G**}$

Scratch space:

CLUE 2 Rounding

The electronic scoreboard display is glitching and can only show numbers rounded to the nearest ten.

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

T						T						T						
200	40	3000	4000	30	30	200	50	600	900	700	200	60	60	40	30	8000	70	

				T				T									
600	900	20	40	200	4000	30	30	200	3000	2000	50	90	70	5000	3000	600	

Round 161 to the nearest hundred → **T**

Round 54 to the nearest ten → **P**

Round 593 to the nearest hundred → **R**

Round 22 to the nearest ten → **G**

Round 3,727 to the nearest thousand → **F**

Round 668 to the nearest hundred → **N**

Round 1,658 to the nearest thousand → **D**

Round 36 to the nearest ten → **H**

Round 60 to the nearest ten → **S**

Round 27 to the nearest ten → **O**

Round 88 to the nearest ten → **L**

Round 70 to the nearest ten → **A**

Round 3,442 to the nearest thousand → **E**

Round 4,852 to the nearest thousand → **Y**

Round 8,021 to the nearest thousand → **W**

Round 894 to the nearest hundred → **I**

Scratch space:

CLUE 3

Word problems

The team captain checks the equipment inventory sheet to track missing training gear.

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

Someone scared the villain off with W B A .

40 70 29 74 49 47 15 47 74 49

Referee found 37 practice cones yesterday and 3 more today. How many practice cones in all?

Answer: → W

Referee found 27 training pinnies yesterday and 20 more today. How many training pinnies in all?

Answer: → L

There were 88 corner flags. 14 were used up. How many corner flags are left?

Answer: → S

Referee lined up 3 rows of 5 training pinnies. How many training pinnies in all?

Answer: → E

Referee lined up 7 rows of 7 corner flags. How many corner flags in all?

Answer: → T

Referee found 23 soccer balls yesterday and 6 more today. How many soccer balls in all?

Answer: → I

Referee lined up 10 rows of 7 water bottles. How many water bottles in all?

Answer: → H

Scratch space:

CLUE 4 Place value

The stadium manager decodes seat digits printed on a dropped VIP ticket stub.

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

S						S			S									
10	4000	200	8000	80	5000	10	400	600	10	100	700	90	2000	70	8000	700	200	

																S
800	300	200	300	600	400	3000	80	5000	400	80	30	900	300	8000	4000	10

What is the value of the 1 in 214? → **S**

What is the value of the 2 in 294? → **R**

What is the value of the 6 in 4,614? → **F**

What is the value of the 8 in 2,385? → **N**

What is the value of the 5 in 5,862? → **D**

What is the value of the 3 in 634? → **C**

What is the value of the 4 in 1,411? → **O**

What is the value of the 9 in 390? → **K**

What is the value of the 8 in 5,827? → **W**

What is the value of the 4 in 4,772? → **T**

What is the value of the 3 in 365? → **E**

What is the value of the 2 in 92,786? → **Y**

What is the value of the 7 in 701? → **I**

What is the value of the 7 in 3,076? → **H**

What is the value of the 1 in 183? → **P**

What is the value of the 8 in 28,302? → **A**

What is the value of the 9 in 943? → **L**

What is the value of the 3 in 63,495? → **U**

Scratch space:

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

The referee divides scrimmage pinnies into equal piles to hand out to players.

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:

$72 \div 12 = \boxed{}$

$55 \div 5 = \boxed{}$

$45 \div 5 = \boxed{}$

$28 \div 7 = \boxed{}$

$45 \div 9 = \boxed{}$

$96 \div 12 = \boxed{}$

$36 \div 3 = \boxed{}$

$3 \div 3 = \boxed{}$

$18 \div 6 = \boxed{}$

$20 \div 10 = \boxed{}$

$14 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain flips over defender with a rainbow flick, then zooms down the sideline in turbo socks.
2. The villain bends the ball with a curved corner, then blocks tackles using titanium shin guard.
3. The villain flips over defender with a rainbow flick, then sticks ball to feet using magnet cleats.
4. The villain scores wildly with a bicycle kick, then sticks ball to feet using magnet cleats.
5. The villain scores wildly with a bicycle kick, then snatches golden trophy with padded gloves.
6. The villain sprints past midfielders with speed dribble, then sticks ball to feet using magnet cleats.
7. The villain sprints past midfielders with speed dribble, then blocks tackles using titanium shin guard.
8. The villain bends the ball with a curved corner, then flashes bright with glowing laces.
9. The villain flips over defender with a rainbow flick, then flashes bright with glowing laces.
10. The villain sprints past midfielders with speed dribble, then flashes bright with glowing laces.
11. The villain dashes past defense with a power strike, then zooms down the sideline in turbo socks.
12. The villain bends the ball with a curved corner, then sticks ball to feet using magnet cleats.

Answer Key

The Great Golden Trophy Mystery

Culprit: Cole

Speed Dribble · Glowing Laces · Right Footed · Spiky Hair · Whistle Blast

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SNEAKY THIEF DOES NOT USE PADDED GLOVES"

$4 \times 9 = 36$ (T) · $12 \times 7 = 84$ (D) · $11 \times 9 = 99$ (L) · $8 \times 7 = 56$ (E) · $6 \times 11 = 66$ (I) · $10 \times 12 = 120$ (Y) · $6 \times 5 = 30$ (U) · $11 \times 10 = 110$ (V) · $1 \times 2 = 2$ (H) · $9 \times 9 = 81$ (O) · $10 \times 10 = 100$ (K) · $8 \times 1 = 8$ (S) · $5 \times 7 = 35$ (N) · $9 \times 5 = 45$ (P) · $11 \times 4 = 44$ (F) · $2 \times 6 = 12$ (A) · $10 \times 8 = 80$ (G)

Clue 2 (Rounding): "THE FOOTPRINTS SHOW A RIGHT FOOTED PLAYER"

Round 161 to the nearest hundred = 200 (T) · Round 54 to the nearest ten = 50 (P) · Round 593 to the nearest hundred = 600 (R) · Round 22 to the nearest ten = 20 (G) · Round 3,727 to the nearest thousand = 4000 (F) · Round 668 to the nearest hundred = 700 (N) · Round 1,658 to the nearest thousand = 2000 (D) · Round 36 to the nearest ten = 40 (H) · Round 60 to the nearest ten = 60 (S) · Round 27 to the nearest ten = 30 (O) · Round 88 to the nearest ten = 90 (L) · Round 70 to the nearest ten = 70 (A) · Round 3,442 to the nearest thousand = 3000 (E) · Round 4,852 to the nearest thousand = 5000 (Y) · Round 8,021 to the nearest thousand = 8000 (W) · Round 894 to the nearest hundred = 900 (I)

Clue 3 (Word problems): "WHISTLE BLAST"

Referee found 37 practice cones yesterday and 3 more today. How many practice cones in all? = 40 (W) · Referee found 27 training pinnies yesterday and 20 more today. How many training pinnies in all? = 47 (L) · There were 88 corner flags. 14 were used up. How many corner flags are left? = 74 (S) · Referee lined up 3 rows of 5 training pinnies. How many training pinnies in all? = 15 (E) · Referee lined up 7 rows of 7 corner flags. How many corner flags in all? = 49 (T) · Referee found 23 soccer balls yesterday and 6 more today. How many soccer balls in all? = 29 (I) · Referee lined up 10 rows of 7 water bottles. How many water bottles in all? = 70 (H)

Clue 4 (Place value): "STRANDS OF SPIKY HAIR WERE FOUND ON CLEATS"

What is the value of the 1 in 214? = 10 (S) · What is the value of the 2 in 294? = 200 (R) · What is the value of the 6 in 4,614? = 600 (F) · What is the value of the 8 in 2,385? = 80 (N) · What is the value of the 5 in 5,862? = 5000 (D) · What is the value of the 3 in 634? = 30 (C) · What is the value of the 4 in 1,411? = 400 (O) · What is the value of the 9 in 390? = 90 (K) · What is the value of the 8 in 5,827? = 800 (W) · What is the value of the 4 in 4,772? = 4000 (T) · What is the value of the 3 in 365? = 300 (E) · What is the value of the 2 in 92,786? = 2000 (Y) · What is the value of the 7 in 701? = 700 (I) · What is the value of the 7 in 3,076? = 70 (H) · What is the value of the 1 in 183? = 100 (P) · What is the value of the 8 in 28,302? = 8000 (A) · What is the value of the 9 in 943? = 900 (L) · What is the value of the 3 in 63,495? = 3000 (U)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Cole

$72 \div 12 = 6$ · $55 \div 5 = 11$ · $45 \div 5 = 9$ · $28 \div 7 = 4$ · $45 \div 9 = 5$ · $96 \div 12 = 8$ · $36 \div 3 = 12$ · $3 \div 3 = 1$ · $18 \div 6 = 3$ · $20 \div 10 = 2$ · $14 \div 2 = 7$