



# The Mystery of the World Cup Trophy

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

Detective: \_\_\_\_\_ Date: \_\_\_\_\_

The stadium is packed and the fans are cheering for the soccer final. But just before kickoff, the Head Referee noticed the Golden Trophy was stolen right from the glass case! You must crack the clues and find the thief before the championship match ends.

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 Golden 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	FAVORITE POSITION	LUCKY GEAR	DIVISION	HEAD STYLE	BIGGEST MISTAKE
Ivy	Goalkeeper	Laser Watch	Team Boy	Spiky Hair	Slips on Mud
Sam	Midfielder	Grip Gloves	Team Girl	Spiky Hair	Slips on Mud
Toby	Defender	Laser Watch	Team Boy	Headband	Drops the Ball
Yara	Striker	Golden Whistle	Team Girl	Curly Ponytail	Drops the Ball
Leo	Coach	Golden Whistle	Team Girl	Spiky Hair	Fears Red Cards
Kira	Midfielder	Grip Gloves	Team Girl	Headband	Slips on Mud
Emma	Defender	Silver Clipboard	Team Boy	Spiky Hair	Fears Red Cards
Zack	Striker	Silver Clipboard	Team Girl	Headband	Slips on Mud
Nico	Midfielder	Silver Clipboard	Team Girl	Headband	Slips on Mud
Alex	Goalkeeper	Silver Clipboard	Team Girl	Curly Ponytail	Fears Red Cards
Vera	Coach	Silver Clipboard	Team Girl	Curly Ponytail	Drops the Ball
Hugo	Defender	Neon Cleats	Team Boy	Headband	Slips on Mud
Will	Coach	Laser Watch	Team Boy	Headband	Slips on Mud
Piper	Defender	Grip Gloves	Team Girl	Spiky Hair	Fears Red Cards
Olivia	Coach	Grip Gloves	Team Girl	Headband	Drops the Ball
Benny	Goalkeeper	Golden Whistle	Team Girl	Spiky Hair	Fears Red Cards
Ruby	Midfielder	Laser Watch	Team Girl	Headband	Slips on Mud
Danny	Striker	Grip Gloves	Team Boy	Headband	Slips on Mud
Jack	Midfielder	Laser Watch	Team Girl	Spiky Hair	Fears Red Cards
Maya	Midfielder	Silver Clipboard	Team Boy	Headband	Slips on Mud
Grace	Midfielder	Silver Clipboard	Team Girl	Spiky Hair	Fears Red Cards

**CLUE 1 Rounding**

A broken digital scoreboard by the gate flashed a number that only shows rounded tens. Solve this rounding puzzle to find where the thief ran!

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

<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>			
90	300	600	90	300	800	600	8000	700	2000	600	900	60	2000	90	4000	600	3000	200	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3000	20	3000	900	600	200	4000	3000	90	500	300									

- |                                     |                      |                                |                                     |                      |                                |                                  |                      |                                |
|-------------------------------------|----------------------|--------------------------------|-------------------------------------|----------------------|--------------------------------|----------------------------------|----------------------|--------------------------------|
| Round 90 to the nearest ten         | <input type="text"/> | <input type="text" value="T"/> | Round 198 to the nearest hundred    | <input type="text"/> | <input type="text" value="R"/> | Round 63 to the nearest ten      | <input type="text"/> | <input type="text" value="N"/> |
| Round 1,978 to the nearest thousand | <input type="text"/> | <input type="text" value="O"/> | Round 3,203 to the nearest thousand | <input type="text"/> | <input type="text" value="A"/> | Round 760 to the nearest hundred | <input type="text"/> | <input type="text" value="I"/> |
| Round 343 to the nearest hundred    | <input type="text"/> | <input type="text" value="H"/> | Round 20 to the nearest ten         | <input type="text"/> | <input type="text" value="L"/> | Round 468 to the nearest hundred | <input type="text"/> | <input type="text" value="C"/> |
| Round 706 to the nearest hundred    | <input type="text"/> | <input type="text" value="D"/> | Round 7,734 to the nearest thousand | <input type="text"/> | <input type="text" value="F"/> | Round 643 to the nearest hundred | <input type="text"/> | <input type="text" value="E"/> |
| Round 3,767 to the nearest thousand | <input type="text"/> | <input type="text" value="W"/> | Round 867 to the nearest hundred    | <input type="text"/> | <input type="text" value="S"/> |                                  |                      |                                |

Scratch space:

**CLUE 2**

**Addition**

The stadium crew counted the spare soccer balls in the equipment locker. Add up the total balls to find a clue card taped to the locker door!

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

<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
602	277	318	691	297	831	831	318	691	614	393	431	393	602	318	393	677
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
751	386	691	257	386	831	634	318	691	431	318	233					

265 + 337 =	<input type="text"/>	<input type="text" value="T"/>	242 + 144 =	<input type="text"/>	<input type="text" value="I"/>	337 + 297 =	<input type="text"/>	<input type="text" value="J"/>
311 + 366 =	<input type="text"/>	<input type="text" value="M"/>	145 + 173 =	<input type="text"/>	<input type="text" value="E"/>	235 + 196 =	<input type="text"/>	<input type="text" value="S"/>
113 + 120 =	<input type="text"/>	<input type="text" value="Y"/>	120 + 137 =	<input type="text"/>	<input type="text" value="L"/>	375 + 456 =	<input type="text"/>	<input type="text" value="N"/>
392 + 359 =	<input type="text"/>	<input type="text" value="G"/>	127 + 170 =	<input type="text"/>	<input type="text" value="U"/>	255 + 138 =	<input type="text"/>	<input type="text" value="A"/>
104 + 173 =	<input type="text"/>	<input type="text" value="H"/>	431 + 260 =	<input type="text"/>	<input type="text" value="R"/>	365 + 249 =	<input type="text"/>	<input type="text" value="W"/>

Scratch space:

**CLUE 3**

**Subtraction**

The game timer shows how much time is left in the second half. Subtract the minutes to unlock the referee's secret locker!

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

<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
467	560	833	582	368	320	691	548	629	610	697	629	691	610	582	610	629	122	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>							
765	691	610	122	582	467	560	629	672	887	582	467							

567 - 100 =	<input type="text"/>	<input type="text" value="T"/>	906 - 209 =	<input type="text"/>	<input type="text" value="F"/>	1050 - 217 =	<input type="text"/>	<input type="text" value="I"/>
1068 - 303 =	<input type="text"/>	<input type="text" value="C"/>	839 - 167 =	<input type="text"/>	<input type="text" value="M"/>	1105 - 218 =	<input type="text"/>	<input type="text" value="O"/>
806 - 246 =	<input type="text"/>	<input type="text" value="H"/>	883 - 335 =	<input type="text"/>	<input type="text" value="Y"/>	546 - 178 =	<input type="text"/>	<input type="text" value="P"/>
940 - 249 =	<input type="text"/>	<input type="text" value="A"/>	534 - 214 =	<input type="text"/>	<input type="text" value="L"/>	730 - 120 =	<input type="text"/>	<input type="text" value="R"/>
907 - 325 =	<input type="text"/>	<input type="text" value="S"/>	406 - 284 =	<input type="text"/>	<input type="text" value="D"/>	792 - 163 =	<input type="text"/>	<input type="text" value="E"/>

Scratch space:

**CLUE 4****Multiplication facts (1-12)**

The team crates are stacked in neat rows near the locker room. Multiply the rows of water bottles to see what the witness dropped!

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

<input type="text" value="W"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6	80	100	27	14	132	11	8	56	55	88	32	54	121	55	144
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
48	3	55	56	8	72	32	42	54	80	18	121	42	80		

$2 \times 3 =$	<input type="text"/>	<input type="text" value="W"/>	$8 \times 6 =$	<input type="text"/>	<input type="text" value="C"/>	$1 \times 3 =$	<input type="text"/>	<input type="text" value="L"/>
$11 \times 1 =$	<input type="text"/>	<input type="text" value="D"/>	$2 \times 7 =$	<input type="text"/>	<input type="text" value="U"/>	$3 \times 6 =$	<input type="text"/>	<input type="text" value="G"/>
$11 \times 11 =$	<input type="text"/>	<input type="text" value="A"/>	$4 \times 2 =$	<input type="text"/>	<input type="text" value="S"/>	$12 \times 11 =$	<input type="text"/>	<input type="text" value="N"/>
$8 \times 11 =$	<input type="text"/>	<input type="text" value="K"/>	$9 \times 6 =$	<input type="text"/>	<input type="text" value="H"/>	$8 \times 10 =$	<input type="text"/>	<input type="text" value="E"/>
$8 \times 4 =$	<input type="text"/>	<input type="text" value="Y"/>	$12 \times 12 =$	<input type="text"/>	<input type="text" value="R"/>	$8 \times 9 =$	<input type="text"/>	<input type="text" value="B"/>
$10 \times 10 =$	<input type="text"/>	<input type="text" value="F"/>	$7 \times 8 =$	<input type="text"/>	<input type="text" value="P"/>	$6 \times 7 =$	<input type="text"/>	<input type="text" value="T"/>
$5 \times 11 =$	<input type="text"/>	<input type="text" value="I"/>	$9 \times 3 =$	<input type="text"/>	<input type="text" value="O"/>			

Scratch space:

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

The coach wanted to share the training cones equally among the players. Divide the cones to open the final clue container!

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:**

$32 \div 8 = \boxed{\phantom{00}}$

$5 \div 1 = \boxed{\phantom{00}}$

$30 \div 5 = \boxed{\phantom{00}}$

$24 \div 2 = \boxed{\phantom{00}}$

$30 \div 3 = \boxed{\phantom{00}}$

$22 \div 11 = \boxed{\phantom{00}}$

$18 \div 2 = \boxed{\phantom{00}}$

$96 \div 12 = \boxed{\phantom{00}}$

$110 \div 10 = \boxed{\phantom{00}}$

$36 \div 12 = \boxed{\phantom{00}}$

$49 \div 7 = \boxed{\phantom{00}}$

**Step 2 - cross out the sentence with each answer:**

1. The villain blocks a crucial penalty shot, then blows a loud high pitched whistle.
2. The villain tackles the opponent near the goal, then leaves bright glowing green footprints.
3. The villain passes the ball through the defense, then leaves bright glowing green footprints.
4. The villain shouts instructions from the sideline, then blows a loud high pitched whistle.
5. The villain passes the ball through the defense, then writes a secret play on the board.
6. The villain tackles the opponent near the goal, then catches the heavy metal trophy.
7. The villain shouts instructions from the sideline, then writes a secret play on the board.
8. The villain kicks a soccer ball into the stands, then leaves bright glowing green footprints.
9. The villain kicks a soccer ball into the stands, then writes a secret play on the board.
10. The villain passes the ball through the defense, then checks the flashing digital timer.
11. The villain tackles the opponent near the goal, then writes a secret play on the board.
12. The villain kicks a soccer ball into the stands, then blows a loud high pitched whistle.

# Answer Key

## The Mystery of the World Cup Trophy

### Culprit: Benny

Goalkeeper · Golden Whistle · Team Girl · Spiky Hair · Fears Red Cards

Trail: Start 21 → Clue 1 16 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

### Clue 1 (Rounding): "THE THIEF DOES NOT WEAR A LASER WATCH"

Round 90 to the nearest ten = 90 (T) · Round 198 to the nearest hundred = 200 (R) · Round 63 to the nearest ten = 60 (N) · Round 1,978 to the nearest thousand = 2000 (O) · Round 3,203 to the nearest thousand = 3000 (A) · Round 760 to the nearest hundred = 800 (I) · Round 343 to the nearest hundred = 300 (H) · Round 20 to the nearest ten = 20 (L) · Round 468 to the nearest hundred = 500 (C) · Round 706 to the nearest hundred = 700 (D) · Round 7,734 to the nearest thousand = 8000 (F) · Round 643 to the nearest hundred = 600 (E) · Round 3,767 to the nearest thousand = 4000 (W) · Round 867 to the nearest hundred = 900 (S)

### Clue 2 (Addition): "THE RUNNER WAS A TEAM GIRL IN JERSEY"

$265 + 337 = 602$  (T) ·  $242 + 144 = 386$  (I) ·  $337 + 297 = 634$  (J) ·  $311 + 366 = 677$  (M) ·  $145 + 173 = 318$  (E) ·  $235 + 196 = 431$  (S) ·  $113 + 120 = 233$  (Y) ·  $120 + 137 = 257$  (L) ·  $375 + 456 = 831$  (N) ·  $392 + 359 = 751$  (G) ·  $127 + 170 = 297$  (U) ·  $255 + 138 = 393$  (A) ·  $104 + 173 = 277$  (H) ·  $431 + 260 = 691$  (R) ·  $365 + 249 = 614$  (W)

### Clue 3 (Subtraction): "THIS PLAYER FEARS RED CARDS THE MOST"

$567 - 100 = 467$  (T) ·  $906 - 209 = 697$  (F) ·  $1050 - 217 = 833$  (I) ·  $1068 - 303 = 765$  (C) ·  $839 - 167 = 672$  (M) ·  $1105 - 218 = 887$  (O) ·  $806 - 246 = 560$  (H) ·  $883 - 335 = 548$  (Y) ·  $546 - 178 = 368$  (P) ·  $940 - 249 = 691$  (A) ·  $534 - 214 = 320$  (L) ·  $730 - 120 = 610$  (R) ·  $907 - 325 = 582$  (S) ·  $406 - 284 = 122$  (D) ·  $792 - 163 = 629$  (E)

### Clue 4 (Multiplication facts (1-12)): "WE FOUND SPIKY HAIR CLIPS BY THE GATE"

$2 \times 3 = 6$  (W) ·  $8 \times 6 = 48$  (C) ·  $1 \times 3 = 3$  (L) ·  $11 \times 1 = 11$  (D) ·  $2 \times 7 = 14$  (U) ·  $3 \times 6 = 18$  (G) ·  $11 \times 11 = 121$  (A) ·  $4 \times 2 = 8$  (S) ·  $12 \times 11 = 132$  (N) ·  $8 \times 11 = 88$  (K) ·  $9 \times 6 = 54$  (H) ·  $8 \times 10 = 80$  (E) ·  $8 \times 4 = 32$  (Y) ·  $12 \times 12 = 144$  (R) ·  $8 \times 9 = 72$  (B) ·  $10 \times 10 = 100$  (F) ·  $7 \times 8 = 56$  (P) ·  $6 \times 7 = 42$  (T) ·  $5 \times 11 = 55$  (I) ·  $9 \times 3 = 27$  (O)

### Clue 5 (Division facts (1-12)): surviving statement is box 1 → Benny

$32 \div 8 = 4$  ·  $5 \div 1 = 5$  ·  $30 \div 5 = 6$  ·  $24 \div 2 = 12$  ·  $30 \div 3 = 10$  ·  $22 \div 11 = 2$  ·  $18 \div 2 = 9$  ·  $96 \div 12 = 8$  ·  $110 \div 10 = 11$  ·  $36 \div 12 = 3$  ·  $49 \div 7 = 7$