The Golden Whistle Mystery

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Just minutes before the championship kickoff at Starlight Stadium, the prized Golden Whistle disappeared from the referee locker room! The suspect left behind subtle clues on the pitch.

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.

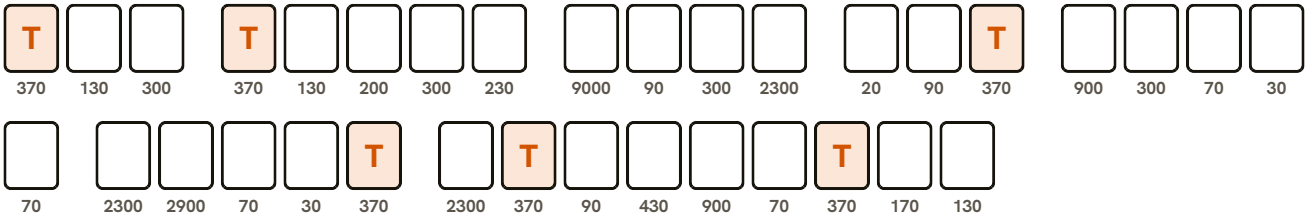
NAME	SIGNATURE SKILL	GEAR ITEM	DOMINANT FOOT	HEADBAND COLOR	FLAWED TACTIC
Alex Morgan	Bullet Header	GPS Vest	Left Footed	Gold Headband	Telegraphing The Pass
Alphonso Davies	Bullet Header	Smart Stopwatch	Right Footed	Blue Headband	Offside Trap Failure
Pedri Gonzalez	Phantom Dribble	Neon Cleats	Left Footed	Gold Headband	Telegraphing The Pass
Florian Wirtz	Rocket Shot	Padded Shinguards	Left Footed	Red Headband	Telegraphing The Pass
Kevin De Bruyne	Rocket Shot	Smart Stopwatch	Right Footed	Red Headband	Offside Trap Failure
Kylian Mbappe	Rocket Shot	Padded Shinguards	Left Footed	Red Headband	Overcommitting Slide Tackle
Declan Rice	Curved Free Kick	Padded Shinguards	Left Footed	Blue Headband	Offside Trap Failure
Sophia Smith	Bicycle Kick	GPS Vest	Left Footed	Blue Headband	Offside Trap Failure
Federico Valverde	Rocket Shot	Neon Cleats	Right Footed	Red Headband	Telegraphing The Pass
Jamal Musiala	Rocket Shot	Smart Stopwatch	Right Footed	Red Headband	Overcommitting Slide Tackle
Marcus Rashford	Phantom Dribble	Padded Shinguards	Left Footed	Blue Headband	Offside Trap Failure
Cole Palmer	Rocket Shot	Smart Stopwatch	Right Footed	Blue Headband	Telegraphing The Pass
Lamine Yamal	Phantom Dribble	GPS Vest	Left Footed	Red Headband	Telegraphing The Pass
Bruno Fernandes	Bullet Header	Neon Cleats	Right Footed	Red Headband	Offside Trap Failure
Sam Kerr	Bicycle Kick	GPS Vest	Right Footed	Gold Headband	Offside Trap Failure
Mallory Swanson	Rocket Shot	Neon Cleats	Left Footed	Gold Headband	Telegraphing The Pass
Phil Foden	Phantom Dribble	Smart Stopwatch	Left Footed	Red Headband	Telegraphing The Pass
Bukayo Saka	Rocket Shot	Smart Stopwatch	Left Footed	Gold Headband	Offside Trap Failure
Son Heungmin	Rocket Shot	Grip Gloves	Left Footed	Red Headband	Telegraphing The Pass
Erling Haaland	Bullet Header	Padded Shinguards	Right Footed	Gold Headband	Telegraphing The Pass
Rose Lavelle	Phantom Dribble	Padded Shinguards	Left Footed	Red Headband	Telegraphing The Pass

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CLUE 1 Rounding

The stadium digital radar estimated the runner's top sprint speed, rounding to the nearest ten.

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



Round 366 to the nearest ten ☐ → T

Round 227 to the nearest ten ☐ → F

Round 21 to the nearest ten ☐ → N

Round 192 to the nearest hundred ☐ → I

Round 857 to the nearest hundred ☐ → W

Round 132 to the nearest ten ☐ → H

Round 173 to the nearest ten ☐ → C

Round 27 to the nearest ten ☐ → R

Round 9,363 to the nearest thousand ☐ → D

Round 2,890 to the nearest hundred ☐ → M

Round 329 to the nearest hundred ☐ → E

Round 91 to the nearest ten ☐ → O

Round 2,305 to the nearest hundred ☐ → S

Round 430 to the nearest ten ☐ → P

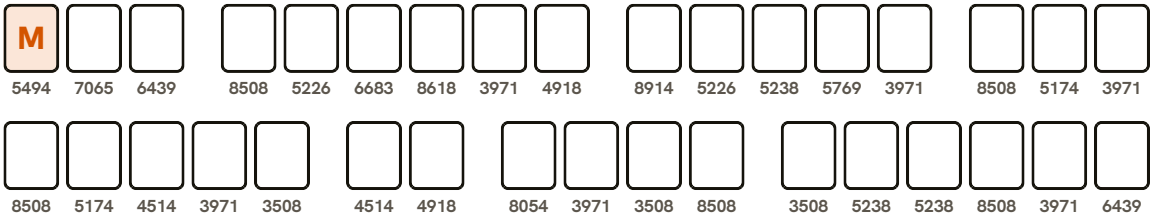
Round 69 to the nearest ten ☐ → A

Scratch space:

CLUE 2 Addition

Coach Miller tallied all the training cones brought in from the warm-up pitches.

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



3318 + 2176 = ☐ → M

3297 + 4757 = ☐ → L

4325 + 4589 = ☐ → P

5338 + 3280 = ☐ → C

2400 + 2826 = ☐ → R

1236 + 2272 = ☐ → F

2289 + 4150 = ☐ → D

3043 + 4022 = ☐ → U

2141 + 2373 = ☐ → I

2638 + 2280 = ☐ → S

1943 + 2028 = ☐ → E

3611 + 2158 = ☐ → V

2148 + 4535 = ☐ → A

2907 + 2267 = ☐ → H

3502 + 1736 = ☐ → O

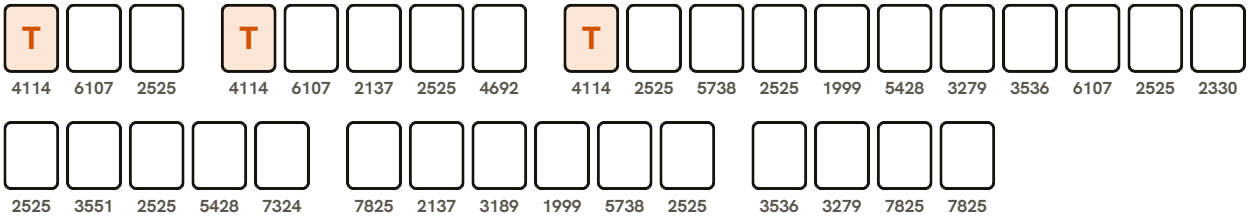
2643 + 5865 = ☐ → T

Scratch space:

CLUE 3 Subtraction

The equipment manager calculated how many official match balls were missing from the storage bin.

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



6427 - 2313 = ☐ → T

3379 - 854 = ☐ → E

7395 - 1288 = ☐ → H

8315 - 4779 = ☐ → P

11798 - 4474 = ☐ → Y

6446 - 1018 = ☐ → R

9908 - 2083 = ☐ → S

4715 - 2716 = ☐ → G

7171 - 3620 = ☐ → V

4714 - 1525 = ☐ → N

7222 - 2530 = ☐ → F

5214 - 1935 = ☐ → A

10226 - 4488 = ☐ → L

3375 - 1045 = ☐ → D

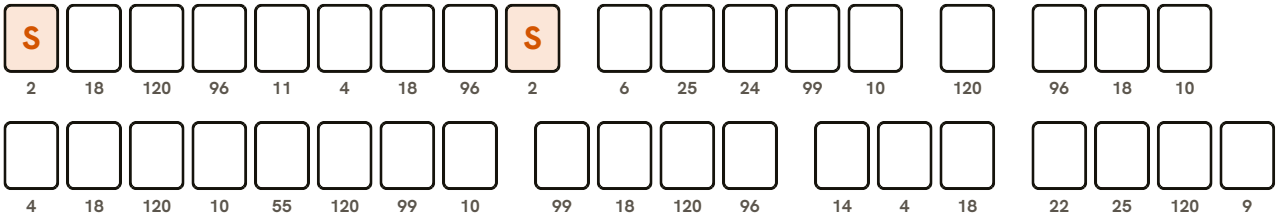
4138 - 2001 = ☐ → I

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The referee checked the inventory grids of spare jerseys stored in equal rows.

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



1 × 2 = ☐ → S	2 × 3 = ☐ → F	12 × 10 = ☐ → A	
2 × 2 = ☐ → H	5 × 5 = ☐ → O	7 × 2 = ☐ → T	9 × 1 = ☐ → L
2 × 11 = ☐ → G	5 × 11 = ☐ → B	11 × 9 = ☐ → N	
11 × 1 = ☐ → C	2 × 12 = ☐ → U	3 × 6 = ☐ → E	
8 × 12 = ☐ → R	5 × 2 = ☐ → D		

Scratch space:

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

> The team captain divided the hydration bottles equally among all five training squads.

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:

16 ÷ 4 = ☐ | 144 ÷ 12 = ☐ | 60 ÷ 6 = ☐ | 70 ÷ 10 = ☐ | 33 ÷ 3 = ☐

88 ÷ 11 = ☐ | 6 ÷ 3 = ☐ | 108 ÷ 12 = ☐ | 48 ÷ 8 = ☐ | 40 ÷ 8 = ☐

3 ÷ 3 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain blasted a rocket shot into the net, then synced match data with a gps vest.
2. The villain curved a free kick around the wall, then adjusted sticky grip gloves.
3. The villain weaved past defenders with phantom dribbles, then strapped on thick padded shinguards.
4. The villain blasted a rocket shot into the net, then adjusted sticky grip gloves.
5. The villain curved a free kick around the wall, then strapped on thick padded shinguards.
6. The villain executed a flawless bicycle kick, then checked a high tech smart stopwatch.
7. The villain powered in a bullet header from the corner, then flashed bright neon cleats down the tunnel.
8. The villain curved a free kick around the wall, then synced match data with a gps vest.
9. The villain executed a flawless bicycle kick, then flashed bright neon cleats down the tunnel.
10. The villain weaved past defenders with phantom dribbles, then synced match data with a gps vest.
11. The villain weaved past defenders with phantom dribbles, then checked a high tech smart stopwatch.
12. The villain blasted a rocket shot into the net, then strapped on thick padded shinguards.

TEACHER / PARENT

Answer Key

The Golden Whistle Mystery

Culprit: Rose Lavelle

Phantom Dribble · Padded Shinguards · Left Footed · Red Headband · Telegraphing The Pass

Trail: Start 21 → Clue 1 15 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE THIEF DOES NOT WEAR A SMART STOPWATCH"

Round 366 to the nearest ten = 370 (T) · Round 227 to the nearest ten = 230 (F) · Round 21 to the nearest ten = 20 (N) · Round 192 to the nearest hundred = 200 (I) · Round 857 to the nearest hundred = 900 (W) · Round 132 to the nearest ten = 130 (H) · Round 173 to the nearest ten = 170 (C) · Round 27 to the nearest ten = 30 (R) · Round 9,363 to the nearest thousand = 9000 (D) · Round 2,890 to the nearest hundred = 2900 (M) · Round 329 to the nearest hundred = 300 (E) · Round 91 to the nearest ten = 90 (O) · Round 2,305 to the nearest hundred = 2300 (S) · Round 430 to the nearest ten = 430 (P) · Round 69 to the nearest ten = 70 (A)

Clue 2 (Addition): "MUD TRACES PROVE THE THIEF IS LEFT FOOTED"

3318 + 2176 = 5494 (M) · 3297 + 4757 = 8054 (L) · 4325 + 4589 = 8914 (P) · 5338 + 3280 = 8618 (C) · 2400 + 2826 = 5226 (R) · 1236 + 2272 = 3508 (F) · 2289 + 4150 = 6439 (D) · 3043 + 4022 = 7065 (U) · 2141 + 2373 = 4514 (I) · 2638 + 2280 = 4918 (S) · 1943 + 2028 = 3971 (E) · 3611 + 2158 = 5769 (V) · 2148 + 4535 = 6683 (A) · 2907 + 2267 = 5174 (H) · 3502 + 1736 = 5238 (O) · 2643 + 5865 = 8508 (T)

Clue 3 (Subtraction): "THE THIEF TELEGRAPHED EVERY SINGLE PASS"

6427 - 2313 = 4114 (T) · 3379 - 854 = 2525 (E) · 7395 - 1288 = 6107 (H) · 8315 - 4779 = 3536 (P) · 11798 - 4474 = 7324 (Y) · 6446 - 1018 = 5428 (R) · 9908 - 2083 = 7825 (S) · 4715 - 2716 = 1999 (G) · 7171 - 3620 = 3551 (V) · 4714 - 1525 = 3189 (N) · 7222 - 2530 = 4692 (F) · 5214 - 1935 = 3279 (A) · 10226 - 4488 = 5738 (L) · 3375 - 1045 = 2330 (D) · 4138 - 2001 = 2137 (I)

Clue 4 (Multiplication facts (1-12)): "SEARCHERS FOUND A RED HEADBAND NEAR THE GOAL"

1 × 2 = 2 (S) · 2 × 3 = 6 (F) · 12 × 10 = 120 (A) · 2 × 2 = 4 (H) · 5 × 5 = 25 (O) · 7 × 2 = 14 (T) · 9 × 1 = 9 (L) · 2 × 11 = 22 (G) · 5 × 11 = 55 (B) · 11 × 9 = 99 (N) · 11 × 1 = 11 (C) · 2 × 12 = 24 (U) · 3 × 6 = 18 (E) · 8 × 12 = 96 (R) · 5 × 2 = 10 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Rose Lavelle

16 ÷ 4 = 4 · 144 ÷ 12 = 12 · 60 ÷ 6 = 10 · 70 ÷ 10 = 7 · 33 ÷ 3 = 11 · 88 ÷ 11 = 8 · 6 ÷ 3 = 2 · 108 ÷ 12 = 9 · 48 ÷ 8 = 6 · 40 ÷ 8 = 5 · 3 ÷ 3 = 1