The Mystery of the Missing Spark Trophy

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

Detective: _____ **Date:** _____

Just before the grand final monster battle, someone snuck into the hall and snatched the Golden Spark Trophy! The referee called in top detectives to trace the rogue trainer before the big match starts.

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 Rogue Trainer is _____

Possible suspects

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

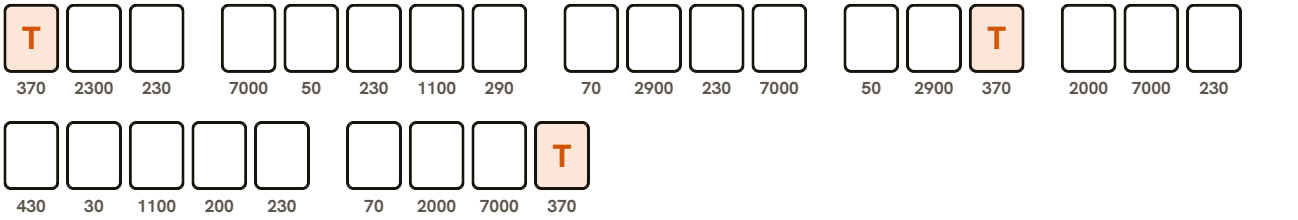
NAME	BATTLE TYPE	HELD ITEM	STANCE	HAIR COLOR	COUNTER MOVE
Misty	Electric Type	Solar Seed	Left Handed Throw	Blue Hair	Splash Shield
Allister	Electric Type	Flame Dust	Right Handed Throw	Red Hair	Shield Blast
Ash	Psychic Type	Flame Dust	Left Handed Throw	Blue Hair	Mirror Guard
Brock	Grass Type	Solar Seed	Right Handed Throw	Yellow Hair	Splash Shield
Gordie	Grass Type	Solar Seed	Right Handed Throw	Blue Hair	Splash Shield
Giovanni	Fire Type	Flame Dust	Right Handed Throw	Blue Hair	Splash Shield
Bea	Electric Type	Water Badge	Right Handed Throw	Red Hair	Splash Shield
Kabu	Grass Type	Flame Dust	Right Handed Throw	Red Hair	Shield Blast
Surge	Psychic Type	Solar Seed	Left Handed Throw	Blue Hair	Splash Shield
Milo	Psychic Type	Water Badge	Right Handed Throw	Yellow Hair	Splash Shield
Cynthia	Electric Type	Berry Juice	Right Handed Throw	Blue Hair	Splash Shield
Raihan	Psychic Type	Berry Juice	Right Handed Throw	Blue Hair	Shield Blast
Lance	Water Type	Magnet Ring	Right Handed Throw	Yellow Hair	Shield Blast
Blaine	Water Type	Water Badge	Right Handed Throw	Blue Hair	Splash Shield
Melony	Water Type	Magnet Ring	Left Handed Throw	Yellow Hair	Splash Shield
Opal	Psychic Type	Magnet Ring	Left Handed Throw	Blue Hair	Shield Blast
Serena	Psychic Type	Magnet Ring	Left Handed Throw	Blue Hair	Splash Shield
Leon	Grass Type	Water Badge	Right Handed Throw	Blue Hair	Splash Shield
Steven	Water Type	Flame Dust	Right Handed Throw	Yellow Hair	Shield Blast
Piers	Electric Type	Magnet Ring	Left Handed Throw	Yellow Hair	Shield Blast
Sabrina	Psychic Type	Berry Juice	Left Handed Throw	Blue Hair	Splash Shield

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CLUE 1 Rounding

The arena radar scanner rounds all creature energy signals to the nearest hundred. Solve this to read the radar.

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



Round 371 to the nearest ten ☐ → T

Round 233 to the nearest ten ☐ → E

Round 46 to the nearest ten ☐ → N

Round 2,876 to the nearest hundred ☐ → O

Round 1,056 to the nearest hundred ☐ → A

Round 434 to the nearest ten ☐ → F

Round 294 to the nearest ten ☐ → K

Round 7,152 to the nearest thousand ☐ → S

Round 30 to the nearest ten ☐ → L

Round 165 to the nearest hundred ☐ → M

Round 1,937 to the nearest thousand ☐ → U

Round 2,347 to the nearest hundred ☐ → H

Round 73 to the nearest ten ☐ → D

Scratch space:

CLUE 2 Addition

To unlock the lockbox on the battle field, combine all the trainer badge tally numbers.

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



1514 + 3270 = ☐ → W

3596 + 3128 = ☐ → T

5726 + 2871 = ☐ → G

1894 + 2367 = ☐ → R

1368 + 880 = ☐ → I

3753 + 1620 = ☐ → O

3717 + 2224 = ☐ → A

2808 + 2752 = ☐ → E

2691 + 1590 = ☐ → H

2935 + 4568 = ☐ → D

1068 + 1016 = ☐ → S

2988 + 2323 = ☐ → N

Scratch space:

CLUE 3 Subtraction

Subtract the used energy points from the total supply to find the remaining charge.

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



7295 - 2024 = ☐ → C

6788 - 1538 = ☐ → P

9955 - 2196 = ☐ → S

7981 - 1190 = ☐ → O

7756 - 647 = ☐ → I

12031 - 4085 = ☐ → T

10327 - 4965 = ☐ → M

7768 - 4361 = ☐ → N

9287 - 1644 = ☐ → E

11780 - 2978 = ☐ → F

4137 - 2961 = ☐ → L

10740 - 2126 = ☐ → H

5054 - 595 = ☐ → W

5266 - 506 = ☐ → D

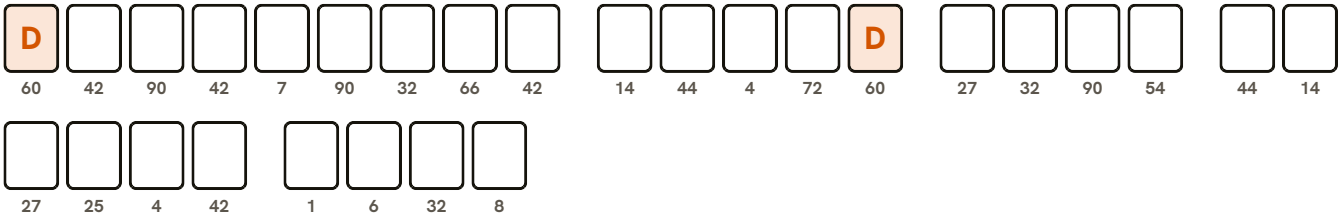
10092 - 1993 = ☐ → A

Scratch space:

CLUE 4 Multiplication facts (1-12)

The stadium bleachers have equal rows of seats. Multiply the rows to count the witnesses.

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



6 × 10 = ☐ → D	1 × 4 = ☐ → U	6 × 9 = ☐ → S	1 × 1 = ☐ → H
7 × 1 = ☐ → C	2 × 7 = ☐ → F	3 × 2 = ☐ → A	5 × 5 = ☐ → L
11 × 4 = ☐ → O	11 × 6 = ☐ → V	12 × 6 = ☐ → N	
9 × 3 = ☐ → B	6 × 7 = ☐ → E	8 × 4 = ☐ → I	9 × 10 = ☐ → T
1 × 8 = ☐ → R			

Scratch space:

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

> Split the healing berries equally among the battle pods to check the medical supplies.

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:

30 ÷ 3 = ☐ | 8 ÷ 1 = ☐ | 12 ÷ 3 = ☐ | 25 ÷ 5 = ☐ | 12 ÷ 12 = ☐

77 ÷ 11 = ☐ | 42 ÷ 7 = ☐ | 6 ÷ 2 = ☐ | 4 ÷ 2 = ☐ | 36 ÷ 4 = ☐

144 ÷ 12 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain tangled the scoreboard in vines, then zapped the metal gates with a magnet ring.
2. The villain scorched the grandstand seats, then zapped the metal gates with a magnet ring.
3. The villain confused the stadium security guards, then zapped the metal gates with a magnet ring.
4. The villain flooded the creature battle ring, then flashed a gleaming water badge.
5. The villain confused the stadium security guards, then planted a fast growing solar seed.
6. The villain shocked the arena sound system, then zapped the metal gates with a magnet ring.
7. The villain flooded the creature battle ring, then zapped the metal gates with a magnet ring.
8. The villain tangled the scoreboard in vines, then planted a fast growing solar seed.
9. The villain tangled the scoreboard in vines, then swigged a gulp of berry juice.
10. The villain tangled the scoreboard in vines, then flashed a gleaming water badge.
11. The villain shocked the arena sound system, then swigged a gulp of berry juice.
12. The villain scorched the grandstand seats, then planted a fast growing solar seed.

TEACHER / PARENT

Answer Key

The Mystery of the Missing Spark Trophy

Culprit: Cynthia

Electric Type · Berry Juice · Right Handed Throw · Blue Hair · Splash Shield

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SNEAK DOES NOT USE FLAME DUST"

Round 371 to the nearest ten = 370 (T) · Round 233 to the nearest ten = 230 (E) · Round 46 to the nearest ten = 50 (N) · Round 2,876 to the nearest hundred = 2900 (O) · Round 1,056 to the nearest hundred = 1100 (A) · Round 434 to the nearest ten = 430 (F) · Round 294 to the nearest ten = 290 (K) · Round 7,152 to the nearest thousand = 7000 (S) · Round 30 to the nearest ten = 30 (L) · Round 165 to the nearest hundred = 200 (M) · Round 1,937 to the nearest thousand = 2000 (U) · Round 2,347 to the nearest hundred = 2300 (H) · Round 73 to the nearest ten = 70 (D)

Clue 2 (Addition): "WITNESS SAW A RIGHT HANDED THROW"

1514 + 3270 = 4784 (W) · 3596 + 3128 = 6724 (T) · 5726 + 2871 = 8597 (G) · 1894 + 2367 = 4261 (R) · 1368 + 880 = 2248 (I) · 3753 + 1620 = 5373 (O) · 3717 + 2224 = 5941 (A) · 2808 + 2752 = 5560 (E) · 2691 + 1590 = 4281 (H) · 2935 + 4568 = 7503 (D) · 1068 + 1016 = 2084 (S) · 2988 + 2323 = 5311 (N)

Clue 3 (Subtraction): "CHAMPION DEFENDED WITH SPLASH SHIELD"

7295 - 2024 = 5271 (C) · 6788 - 1538 = 5250 (P) · 9955 - 2196 = 7759 (S) · 7981 - 1190 = 6791 (O) · 7756 - 647 = 7109 (I) · 12031 - 4085 = 7946 (T) · 10327 - 4965 = 5362 (M) · 7768 - 4361 = 3407 (N) · 9287 - 1644 = 7643 (E) · 11780 - 2978 = 8802 (F) · 4137 - 2961 = 1176 (L) · 10740 - 2126 = 8614 (H) · 5054 - 595 = 4459 (W) · 5266 - 506 = 4760 (D) · 10092 - 1993 = 8099 (A)

Clue 4 (Multiplication facts (1-12)): "DETECTIVE FOUND BITS OF BLUE HAIR"

6 × 10 = 60 (D) · 1 × 4 = 4 (U) · 6 × 9 = 54 (S) · 1 × 1 = 1 (H) · 7 × 1 = 7 (C) · 2 × 7 = 14 (F) · 3 × 2 = 6 (A) · 5 × 5 = 25 (L) · 11 × 4 = 44 (O) · 11 × 6 = 66 (V) · 12 × 6 = 72 (N) · 9 × 3 = 27 (B) · 6 × 7 = 42 (E) · 8 × 4 = 32 (I) · 9 × 10 = 90 (T) · 1 × 8 = 8 (R)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Cynthia

30 ÷ 3 = 10 · 8 ÷ 1 = 8 · 12 ÷ 3 = 4 · 25 ÷ 5 = 5 · 12 ÷ 12 = 1 · 77 ÷ 11 = 7 · 42 ÷ 7 = 6 · 6 ÷ 2 = 3 · 4 ÷ 2 = 2 · 36 ÷ 4 = 9 · 144 ÷ 12 = 12