The Golden Fish Trophy Mystery

Grade 8 math · Addition, Subtraction, Multiplication, Exponents, Missing addends · Reading level grades 3-4

Detective: _____ **Date:** _____

During the championship match at Meowcraft Pixel Stadium, someone snuck into the locker room and snatched the Golden Fish Trophy! Detective Whiskers arrived on the scene to gather clues, analyze block prints, and figure out which player pulled off this sneaky trick.

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 Pixel Prowler is _____

Possible suspects

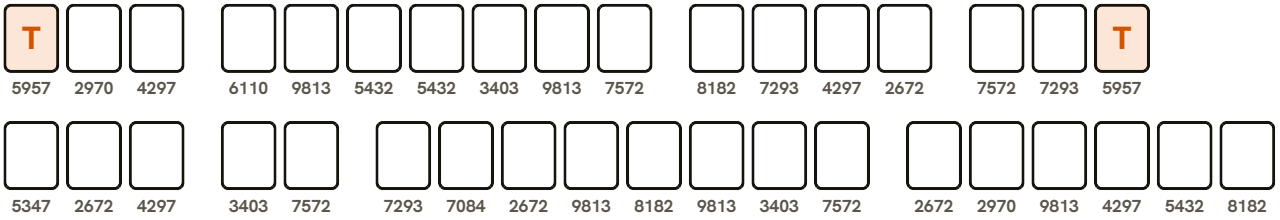
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SIGNATURE MOVE	SPECIAL GEAR	PREFERRED FOOT	HEADWEAR	DISTRACTION
Paws Pixel	Ender Kick	Obsidian Shield	Left Footed	Calico Fur Cap	Fish Treat
Milo Mittens	Creeper Swipe	Redstone Whistle	Right Footed	Black Ear Headband	Fish Treat
Smokey Slide	Diamond Pounce	Golden Apple Cleats	Right Footed	Tabby Stripes Cap	Fish Treat
Luna Lobber	Redstone Slide	Obsidian Shield	Right Footed	Calico Fur Cap	Squeaky Toy Ball
Pumpkin Pass	Diamond Pounce	Obsidian Shield	Left Footed	Calico Fur Cap	Fish Treat
Ziggy Zigzag	Meow Header	Obsidian Shield	Left Footed	Calico Fur Cap	Fish Treat
Daisy Dash	Redstone Slide	Pixel Net	Right Footed	Black Ear Headband	Fish Treat
Oliver Outfield	Ender Kick	Ender Pearl Ball	Left Footed	Black Ear Headband	Milk Bucket
Jasper Jumper	Redstone Slide	Pixel Net	Left Footed	Black Ear Headband	Fish Treat
Simba Swift	Meow Header	Golden Apple Cleats	Left Footed	Black Ear Headband	Fish Treat
Chloe Craft	Redstone Slide	Obsidian Shield	Right Footed	Black Ear Headband	Fish Treat
Mittens Corner	Redstone Slide	Golden Apple Cleats	Left Footed	Black Ear Headband	Squeaky Toy Ball
Cleo Calico	Meow Header	Obsidian Shield	Right Footed	Tabby Stripes Cap	Milk Bucket
Felix Footer	Redstone Slide	Redstone Whistle	Right Footed	Calico Fur Cap	Milk Bucket
Tabitha Tackler	Meow Header	Redstone Whistle	Right Footed	Calico Fur Cap	Milk Bucket
Chester Cleat	Creeper Swipe	Ender Pearl Ball	Right Footed	Black Ear Headband	Milk Bucket
Shadow Sprint	Diamond Pounce	Redstone Whistle	Right Footed	Black Ear Headband	Fish Treat
Bella Block	Ender Kick	Ender Pearl Ball	Right Footed	Black Ear Headband	Fish Treat
Leo Leftie	Diamond Pounce	Obsidian Shield	Left Footed	Black Ear Headband	Squeaky Toy Ball
Barnaby Block	Redstone Slide	Obsidian Shield	Right Footed	Tabby Stripes Cap	Milk Bucket
Nala Netter	Ender Kick	Redstone Whistle	Right Footed	Tabby Stripes Cap	Fish Treat

CLUE 1 Addition

We tallied up all the extra pixel soccer balls stored around the pitch to find our first lead.

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



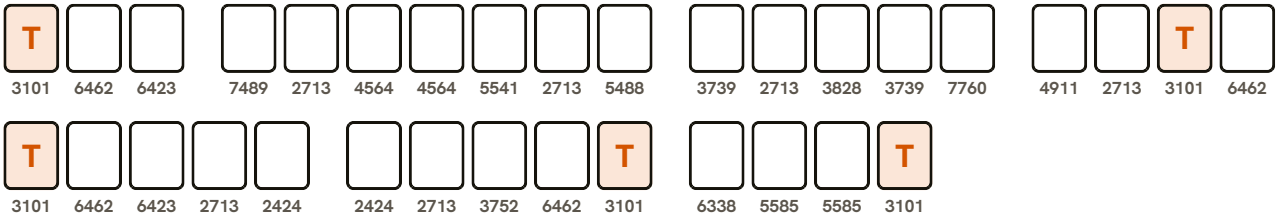
3332 + 2625 = ☐ → T	3681 + 3612 = ☐ → O	5116 + 2456 = ☐ → N
1382 + 1290 = ☐ → S	1948 + 2349 = ☐ → E	3973 + 2137 = ☐ → V
5974 + 3839 = ☐ → I	3422 + 2010 = ☐ → L	4074 + 4108 = ☐ → D
1335 + 1635 = ☐ → H	2577 + 2770 = ☐ → U	1671 + 1732 = ☐ → A
2946 + 4138 = ☐ → B		

Scratch space:

CLUE 2 Subtraction

We subtracted the broken gear items from the team locker inventory to narrow down the evidence.

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



6016 - 2915 = ☐ → T

6034 - 493 = ☐ → A

6260 - 3836 = ☐ → R

9491 - 2002 = ☐ → V

7675 - 1337 = ☐ → F

6301 - 3588 = ☐ → I

6640 - 2076 = ☐ → L

5278 - 1450 = ☐ → C

10598 - 2838 = ☐ → S

9803 - 4218 = ☐ → O

5514 - 1775 = ☐ → K

11261 - 4838 = ☐ → E

10341 - 3879 = ☐ → H

7496 - 3744 = ☐ → G

7506 - 2018 = ☐ → N

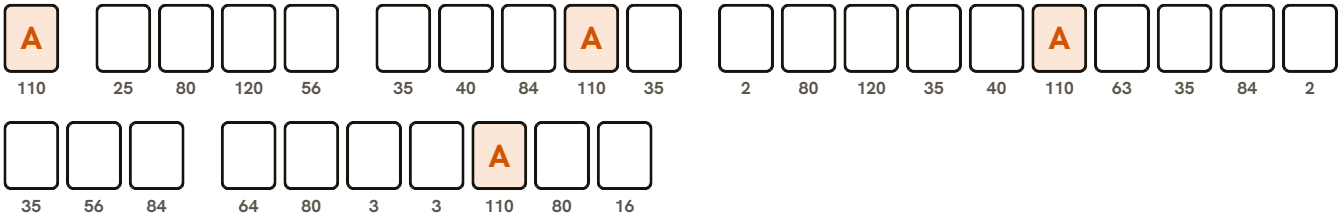
5607 - 696 = ☐ → W

Scratch space:

CLUE 3 Multiplication facts (1-12)

The coach lined up training cones in equal groups across the grass field to calculate pattern grid data.

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



11 × 10 = ☐ → A

8 × 8 = ☐ → V

5 × 5 = ☐ → F

12 × 10 = ☐ → S

12 × 7 = ☐ → E

2 × 1 = ☐ → D

8 × 7 = ☐ → H

8 × 5 = ☐ → R

4 × 4 = ☐ → N

9 × 7 = ☐ → C

10 × 8 = ☐ → I

3 × 1 = ☐ → L

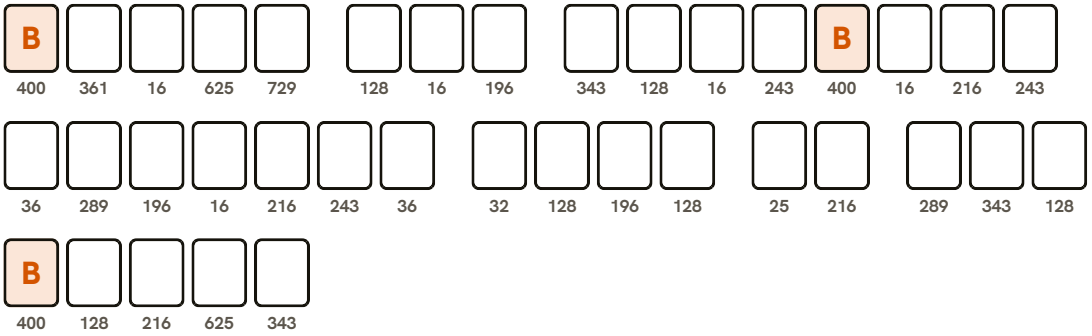
5 × 7 = ☐ → T

Scratch space:

CLUE 4 Exponents

The stadium energy scanner multiplied power output levels using exponents to pinpoint stadium tech usage.

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



20^2 = ☐ → B

5^2 = ☐ → O

2^5 = ☐ → W

7^3 = ☐ → H

19^2 = ☐ → L

9^3 = ☐ → K

2^7 = ☐ → E

6^2 = ☐ → S

3^5 = ☐ → D

5^4 = ☐ → C

17^2 = ☐ → T

6^3 = ☐ → N

14^2 = ☐ → R

4^2 = ☐ → A

Scratch space:

CLUE 5 Missing addends - the last clue

> We figured out how many missing redstone blocks were needed to complete the security code equation.

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:

17 + ___ = 18 ☐	15 + ___ = 27 ☐	5 + ___ = 14 ☐	5 + ___ = 16 ☐
2 + ___ = 12 ☐	34 + ___ = 40 ☐	8 + ___ = 10 ☐	24 + ___ = 31 ☐
26 + ___ = 31 ☐	31 + ___ = 34 ☐	36 + ___ = 40 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain executed a diamond pounce, then blew a redstone whistle.
2. The villain struck with a meow header, then blew a redstone whistle.
3. The villain performed a redstone slide, then kicked an ender pearl ball.
4. The villain unleashed an ender kick, then blew a redstone whistle.
5. The villain swiped with creeper swipe, then laced up golden apple cleats.
6. The villain unleashed an ender kick, then tangled the goalie in a pixel net.
7. The villain performed a redstone slide, then laced up golden apple cleats.
8. The villain performed a redstone slide, then tangled the goalie in a pixel net.
9. The villain unleashed an ender kick, then kicked an ender pearl ball.
10. The villain struck with a meow header, then kicked an ender pearl ball.
11. The villain swiped with creeper swipe, then kicked an ender pearl ball.
12. The villain swiped with creeper swipe, then blew a redstone whistle.

TEACHER / PARENT

Answer Key

The Golden Fish Trophy Mystery

Culprit: Daisy Dash

Redstone Slide · Pixel Net · Right Footed · Black Ear Headband · Fish Treat

Trail: Start 21 → Clue 1 13 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE AN OBSIDIAN SHIELD"

3332 + 2625 = 5957 (T) · 3681 + 3612 = 7293 (O) · 5116 + 2456 = 7572 (N) · 1382 + 1290 = 2672 (S) · 1948 + 2349 = 4297 (E) · 3973 + 2137 = 6110 (V) · 5974 + 3839 = 9813 (I) · 3422 + 2010 = 5432 (L) · 4074 + 4108 = 8182 (D) · 1335 + 1635 = 2970 (H) · 2577 + 2770 = 5347 (U) · 1671 + 1732 = 3403 (A) · 2946 + 4138 = 7084 (B)

Clue 2 (Subtraction): "THE VILLAIN KICKS WITH THEIR RIGHT FOOT"

6016 - 2915 = 3101 (T) · 6034 - 493 = 5541 (A) · 6260 - 3836 = 2424 (R) · 9491 - 2002 = 7489 (V) · 7675 - 1337 = 6338 (F) · 6301 - 3588 = 2713 (I) · 6640 - 2076 = 4564 (L) · 5278 - 1450 = 3828 (C) · 10598 - 2838 = 7760 (S) · 9803 - 4218 = 5585 (O) · 5514 - 1775 = 3739 (K) · 11261 - 4838 = 6423 (E) · 10341 - 3879 = 6462 (H) · 7496 - 3744 = 3752 (G) · 7506 - 2018 = 5488 (N) · 5607 - 696 = 4911 (W)

Clue 3 (Multiplication facts (1-12)): "A FISH TREAT DISTRACTED THE VILLAIN"

11 × 10 = 110 (A) · 8 × 8 = 64 (V) · 5 × 5 = 25 (F) · 12 × 10 = 120 (S) · 12 × 7 = 84 (E) · 2 × 1 = 2 (D) · 8 × 7 = 56 (H) · 8 × 5 = 40 (R) · 4 × 4 = 16 (N) · 9 × 7 = 63 (C) · 10 × 8 = 80 (I) · 3 × 1 = 3 (L) · 5 × 7 = 35 (T)

Clue 4 (Exponents): "BLACK EAR HEADBAND STRANDS WERE ON THE BENCH"

20^2 = 400 (B) · 5^2 = 25 (O) · 2^5 = 32 (W) · 7^3 = 343 (H) · 19^2 = 361 (L) · 9^3 = 729 (K) · 2^7 = 128 (E) · 6^2 = 36 (S) · 3^5 = 243 (D) · 5^4 = 625 (C) · 17^2 = 289 (T) · 6^3 = 216 (N) · 14^2 = 196 (R) · 4^2 = 16 (A)

Clue 5 (Missing addends): surviving statement is box 8 → Daisy Dash

17 + ___ = 18 = 1 · 15 + ___ = 27 = 12 · 5 + ___ = 14 = 9 · 5 + ___ = 16 = 11 · 2 + ___ = 12 = 10 · 34 + ___ = 40 = 6 · 8 + ___ = 10 = 2 · 24 + ___ = 31 = 7 · 26 + ___ = 31 = 5 · 31 + ___ = 34 = 3 · 36 + ___ = 40 = 4