



The Aqua-Block Arena Caper

Grade 5 math · Addition, Subtraction, Multiplication, Rounding, Division · Reading level grades 3-4

Detective: _____ Date: _____

The Golden Kitty-Cup has been stolen from the Aqua-Block Arena right before the big match! A mysterious figure was spotted warping away. It is up to you to solve the math puzzles and find the thief.

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 Glitter-Thief is _____

Possible suspects

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

NAME	SOCCER SKILL	MAGIC GEAR	SHOOTING FOOT	HAIR STYLE	ITEM WEAKNESS
Chloe Block-head	Golden Mane Strike	Diamond Armor	Left-footed kick	Coral Braids	Golden Apple
Neymar Jr	Rainbow Kick	Diamond Armor	Right-footed kick	Pink Mane	Golden Apple
Kevin De Purr-yne	Golden Mane Strike	Glitter Dash	Left-footed kick	Pink Mane	Soggy Kelp
Jude Bell-Ring	Teleport Warp	Glitter Dash	Left-footed kick	Pink Mane	Soggy Kelp
Son Heung-fish	Water Splash	Cat-Nip Boost	Left-footed kick	Coral Braids	Squeaky Toy
Robert Lewand-cat-ski	Teleport Warp	Glitter Dash	Left-footed kick	Coral Braids	Golden Apple
Jack Purr-alish	Purr Purr Block	Cat-Nip Boost	Left-footed kick	Calico Fur	Golden Apple
Alex Meowgan	Purr Purr Block	Glitter Dash	Left-footed kick	Pink Mane	Soggy Kelp
Lionel Mewsi	Rainbow Kick	Cat-Nip Boost	Right-footed kick	Pink Mane	Golden Apple
Marta Magic	Purr Purr Block	Glitter Dash	Left-footed kick	Calico Fur	Golden Apple
Antoine Griez-cat	Teleport Warp	Horn Laser	Left-footed kick	Coral Braids	Golden Apple
Harry Kitten	Teleport Warp	Diamond Armor	Right-footed kick	Calico Fur	Golden Apple
Marcus Scratch-ford	Golden Mane Strike	Horn Laser	Right-footed kick	Calico Fur	Squeaky Toy
Luis Claw-rez	Rainbow Kick	Horn Laser	Left-footed kick	Pink Mane	Golden Apple
Virgil van Claw	Rainbow Kick	Glitter Dash	Left-footed kick	Calico Fur	Golden Apple
Bukayo Sparkle	Teleport Warp	Horn Laser	Right-footed kick	Coral Braids	Golden Apple
Megan Rap-claw	Purr Purr Block	Bubble Shield	Left-footed kick	Pink Mane	Squeaky Toy
Sam Purr	Rainbow Kick	Cat-Nip Boost	Left-footed kick	Coral Braids	Golden Apple
Luka Mew-dric	Purr Purr Block	Horn Laser	Left-footed kick	Coral Braids	Squeaky Toy
Kylian Meowbappe	Water Splash	Cat-Nip Boost	Left-footed kick	Coral Braids	Golden Apple
Cristiano Ronaldonut	Golden Mane Strike	Glitter Dash	Left-footed kick	Coral Braids	Squeaky Toy

CLUE 1 Addition

We need to count how many glitter-balls are left in the storage bin. Add the two piles together to find the total.

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

T 3367	9489	3990	T 3367	9489	2158	3990	3631	3192	6905	3990	5367	7003	6905	T 3367	9698	5367	3990
7050	8456	2158	T 3367	T 3367	3990	5023	3192	3645	5367	9489							

$1745 + 1622 = \square \rightarrow \text{T}$

$3963 + 4493 = \square \rightarrow \text{L}$

$3747 + 3158 = \square \rightarrow \text{O}$

$2863 + 2504 = \square \rightarrow \text{S}$

$1281 + 877 = \square \rightarrow \text{I}$

$6580 + 3118 = \square \rightarrow \text{U}$

$3941 + 3062 = \square \rightarrow \text{N}$

$2994 + 6495 = \square \rightarrow \text{H}$

$1845 + 1786 = \square \rightarrow \text{F}$

$2495 + 4555 = \square \rightarrow \text{G}$

$1011 + 2181 = \square \rightarrow \text{D}$

$2451 + 2572 = \square \rightarrow \text{R}$

$1298 + 2692 = \square \rightarrow \text{E}$

$1768 + 1877 = \square \rightarrow \text{A}$

Scratch space:

CLUE 2

Subtraction

The thief dropped some pixel-fish as they ran. Subtract the ruined fish from our total food supply to see what is left.

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

T 4255	4268	8348	8245	4645	8245	6109	8348	3384	T 4255	2435	7086	3384	2435	8245	3933	7086	T 4255	4268
T 4255	4268	8348	2099	8348	3750	T 4255	3750	1037	1037	T 4255								

$7592 - 3337 = \square \rightarrow \boxed{\text{T}}$

$5380 - 1630 = \square \rightarrow \boxed{\text{F}}$

$7795 - 709 = \square \rightarrow \boxed{\text{I}}$

$9291 - 943 = \square \rightarrow \boxed{\text{E}}$

$6086 - 2153 = \square \rightarrow \boxed{\text{W}}$

$9188 - 943 = \square \rightarrow \boxed{\text{S}}$

$1443 - 406 = \square \rightarrow \boxed{\text{O}}$

$10346 - 4237 = \square \rightarrow \boxed{\text{P}}$

$7078 - 4979 = \square \rightarrow \boxed{\text{L}}$

$7312 - 3928 = \square \rightarrow \boxed{\text{C}}$

$9163 - 4518 = \square \rightarrow \boxed{\text{U}}$

$5839 - 3404 = \square \rightarrow \boxed{\text{K}}$

$8410 - 4142 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 3
Multiplication facts (1-12)

The stadium seats are arranged in equal rows. Multiply the rows of cats by the seats in each row to count the crowd.

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

T															
6	84	40	33	55	7	108	12	80	12	33	42	55	25	20	12
120	25	28	21	40	108	12	9	9	28	40					

$1 \times 6 = \square \rightarrow \boxed{\text{T}}$

$12 \times 10 = \square \rightarrow \boxed{\text{G}}$

$8 \times 10 = \square \rightarrow \boxed{\text{W}}$

$7 \times 3 = \square \rightarrow \boxed{\text{D}}$

$4 \times 7 = \square \rightarrow \boxed{\text{L}}$

$3 \times 11 = \square \rightarrow \boxed{\text{Y}}$

$5 \times 5 = \square \rightarrow \boxed{\text{O}}$

$9 \times 12 = \square \rightarrow \boxed{\text{N}}$

$10 \times 4 = \square \rightarrow \boxed{\text{E}}$

$2 \times 10 = \square \rightarrow \boxed{\text{M}}$

$9 \times 1 = \square \rightarrow \boxed{\text{P}}$

$7 \times 1 = \square \rightarrow \boxed{\text{U}}$

$5 \times 11 = \square \rightarrow \boxed{\text{R}}$

$7 \times 6 = \square \rightarrow \boxed{\text{F}}$

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

$12 \times 7 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 4
Rounding

The stadium radar is fuzzy. It only shows the distance to the target rounded to the nearest ten.

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

W																	
130	20	1700	30	1100	430	230	70	30	2000	500	50	110	2000	500	900	230	2300

500	90	90	200	20	2300	70	20	430	20

Round 126 to the nearest ten → **W**

Round 108 to the nearest ten → **B**

Round 2,394 to the nearest thousand → **R**

Round 23 to the nearest ten → **E**

Round 227 to the nearest ten → **D**

Round 1,061 to the nearest hundred → **U**

Round 428 to the nearest ten → **N**

Round 87 to the nearest ten → **T**

Round 2,305 to the nearest hundred → **S**

Round 68 to the nearest ten → **C**

Round 1,711 to the nearest hundred → **F**

Round 888 to the nearest hundred → **I**

Round 459 to the nearest hundred → **A**

Round 33 to the nearest ten → **O**

Round 205 to the nearest hundred → **H**

Round 54 to the nearest ten → **L**

Scratch space:

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

We have a box of coral-boots to hand out to the team. Divide them equally among the players so everyone gets a pair.

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:

$132 \div 11 = \boxed{}$

$18 \div 9 = \boxed{}$

$10 \div 1 = \boxed{}$

$1 \div 1 = \boxed{}$

$11 \div 1 = \boxed{}$

$40 \div 10 = \boxed{}$

$24 \div 8 = \boxed{}$

$56 \div 7 = \boxed{}$

$56 \div 8 = \boxed{}$

$10 \div 2 = \boxed{}$

$42 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain activated a purr purr block, then put on diamond armor.
2. The villain unleashed a rainbow kick, then snacked on a catnip boost.
3. The villain unleashed a rainbow kick, then zoomed off with a glitter dash.
4. The villain activated a purr purr block, then summoned a bubble shield.
5. The villain used a teleport warp, then put on diamond armor.
6. The villain used a teleport warp, then snacked on a catnip boost.
7. The villain used a teleport warp, then summoned a bubble shield.
8. The villain activated a purr purr block, then snacked on a catnip boost.
9. The villain performed a golden mane strike, then put on diamond armor.
10. The villain made a huge water splash, then snacked on a catnip boost.
11. The villain unleashed a rainbow kick, then shot a horn laser.
12. The villain used a teleport warp, then shot a horn laser.

Answer Key

The Aqua-Block Arena Caper

Culprit: Chloe Block-head

Golden Mane Strike · Diamond Armor · Left-footed kick · Coral Braids · Golden Apple

Trail: Start 21 → Clue 1 14 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT USE GLITTER DASH"

$1745 + 1622 = 3367$ (T) · $3963 + 4493 = 8456$ (L) · $3747 + 3158 = 6905$ (O) · $2863 + 2504 = 5367$ (S) · $1281 + 877 = 2158$ (I) · $6580 + 3118 = 9698$ (U) · $3941 + 3062 = 7003$ (N) · $2994 + 6495 = 9489$ (H) · $1845 + 1786 = 3631$ (F) · $2495 + 4555 = 7050$ (G) · $1011 + 2181 = 3192$ (D) · $2451 + 2572 = 5023$ (R) · $1298 + 2692 = 3990$ (E) · $1768 + 1877 = 3645$ (A)

Clue 2 (Subtraction): "THE SUSPECT KICKS WITH THE LEFT FOOT"

$7592 - 3337 = 4255$ (T) · $5380 - 1630 = 3750$ (F) · $7795 - 709 = 7086$ (I) · $9291 - 943 = 8348$ (E) · $6086 - 2153 = 3933$ (W) · $9188 - 943 = 8245$ (S) · $1443 - 406 = 1037$ (O) · $10346 - 4237 = 6109$ (P) · $7078 - 4979 = 2099$ (L) · $7312 - 3928 = 3384$ (C) · $9163 - 4518 = 4645$ (U) · $5839 - 3404 = 2435$ (K) · $8410 - 4142 = 4268$ (H)

Clue 3 (Multiplication facts (1-12)): "THEY RUN AWAY FROM A GOLDEN APPLE"

$1 \times 6 = 6$ (T) · $12 \times 10 = 120$ (G) · $8 \times 10 = 80$ (W) · $7 \times 3 = 21$ (D) · $4 \times 7 = 28$ (L) · $3 \times 11 = 33$ (Y) · $5 \times 5 = 25$ (O) · $9 \times 12 = 108$ (N) · $10 \times 4 = 40$ (E) · $2 \times 10 = 20$ (M) · $9 \times 1 = 9$ (P) · $7 \times 1 = 7$ (U) · $5 \times 11 = 55$ (R) · $7 \times 6 = 42$ (F) · $2 \times 6 = 12$ (A) · $12 \times 7 = 84$ (H)

Clue 4 (Rounding): "WE FOUND CORAL BRAIDS AT THE SCENE"

Round 126 to the nearest ten = 130 (W) · Round 108 to the nearest ten = 110 (B) · Round 2,394 to the nearest thousand = 2000 (R) · Round 23 to the nearest ten = 20 (E) · Round 227 to the nearest ten = 230 (D) · Round 1,061 to the nearest hundred = 1100 (U) · Round 428 to the nearest ten = 430 (N) · Round 87 to the nearest ten = 90 (T) · Round 2,305 to the nearest hundred = 2300 (S) · Round 68 to the nearest ten = 70 (C) · Round 1,711 to the nearest hundred = 1700 (F) · Round 888 to the nearest hundred = 900 (I) · Round 459 to the nearest hundred = 500 (A) · Round 33 to the nearest ten = 30 (O) · Round 205 to the nearest hundred = 200 (H) · Round 54 to the nearest ten = 50 (L)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Chloe Block-head

$132 \div 11 = 12$ · $18 \div 9 = 2$ · $10 \div 1 = 10$ · $1 \div 1 = 1$ · $11 \div 1 = 11$ · $40 \div 10 = 4$ · $24 \div 8 = 3$ · $56 \div 7 = 8$ · $56 \div 8 = 7$ · $10 \div 2 = 5$ · $42 \div 7 = 6$