



The Great Golden Taki Cup Caper

Grade 5 math · Addition, Multiplication, Word problems, Fractions of a number, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

The championship match was about to start, but someone stole the precious Golden Taki Cup! The field is covered in spicy red dust and mysterious footprints. Coach Gill needs your help to solve the math puzzles and find out which axolotl player took the trophy!

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 Spice Burglar is _____

Possible suspects

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

NAME	SOCCER TRICK	SNACK ATTACK	SHOOTING FOOT	GILL COLOR	SNACK WEAKNESS
Harry Gill	Super header	Nacho vapor	Right footed	Pink gills	Plain water
Axel Lox	Bicycle kick	Spicy dust blast	Left footed	Purple gills	Ice cube
Gill Ronaldo	Slide tackle	Lime shockwave	Right footed	Pink gills	Mild cheese
Marcus Rashford	Sonic whistle	Crunch barrier	Right footed	Purple gills	Plain water
Bubbles Mbappe	Sonic whistle	Lime shockwave	Right footed	Pink gills	Ice cube
Neymar Jr	Bicycle kick	Lime shockwave	Left footed	Purple gills	Mild cheese
Kevin De Bruyne	Speed dribble	Lime shockwave	Right footed	Pink gills	Plain water
Splash Haaland	Bicycle kick	Spicy dust blast	Right footed	Yellow gills	Mild cheese
Marta Vieira	Bicycle kick	Nacho vapor	Left footed	Pink gills	Plain water
Mo Salah	Super header	Spicy dust blast	Left footed	Pink gills	Plain water
Sam Kerr	Super header	Spicy dust blast	Left footed	Purple gills	Mild cheese
Chloe Kelly	Bicycle kick	Crunch barrier	Right footed	Pink gills	Ice cube
Lionel Messi	Sonic whistle	Lime shockwave	Right footed	Pink gills	Plain water
Alex Morgan	Slide tackle	Spicy dust blast	Right footed	Yellow gills	Ice cube
Luka Modric	Sonic whistle	Spicy dust blast	Right footed	Purple gills	Plain water
Sari Swift	Bicycle kick	Spicy dust blast	Right footed	Pink gills	Ice cube
Virgil Van Dijk	Super header	Crunch barrier	Left footed	Pink gills	Ice cube
Lucy Bronze	Sonic whistle	Chili sparkler	Right footed	Purple gills	Ice cube
Pele Pond	Bicycle kick	Spicy dust blast	Right footed	Pink gills	Plain water
Finny Kane	Speed dribble	Crunch barrier	Left footed	Yellow gills	Mild cheese
Megan Rapinoe	Super header	Chili sparkler	Right footed	Pink gills	Plain water

CLUE 1

Coach Gill is counting up all the soccer balls in the locker room. Help him add them all together to find the first clue about the spicy suspect!

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

A number line starting at 6177 and ending at 6177. There are 18 empty boxes for digits. The first and last boxes are labeled 'T'.

T																	T
6177	5727	4493	2843	9404	2413	2413	4396	9404	5289	8496	3107	4493	8175	5289	3107	6177	
7939	8175	4493	5289	4396	5049	5727	3107	2843	4396	3400	3107	3373					

$$2465 + 3712 = \boxed{} \rightarrow \boxed{\text{T}}$$

$2366 + 2030 = \boxed{} \rightarrow \boxed{\text{A}}$

$$2888 + 5051 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$1684 + 1423 = \boxed{} \rightarrow \boxed{0}$$

$$3060 + 2229 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$3641 + 2086 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$1722 + 2771 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$1118 + 1295 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$4561 + 3614 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$4295 + 4201 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$1677 + 1166 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$3345 + 1704 = \boxed{} \rightarrow \boxed{\text{C}}$

$$1546 + 1827 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$2173 + 1227 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$5866 + 3538 = \boxed{} \rightarrow \boxed{\text{I}}$$

Scratch space:

CLUE 2

Multiplication facts (1-12)

The team lined up their water bottles in equal rows. Let's multiply the rows and columns to unlock the next piece of evidence.

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

A														
22	4	121	28	80	2	27	50	50	2	81	35	110	121	5

99	81	27	2	2	80	81	35	81	30

$2 \times 11 = \square \rightarrow \boxed{\text{A}}$

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

$10 \times 11 = \square \rightarrow \boxed{\text{K}}$

$11 \times 11 = \square \rightarrow \boxed{\text{I}}$

$10 \times 3 = \square \rightarrow \boxed{\text{N}}$

$2 \times 1 = \square \rightarrow \boxed{\text{T}}$

$10 \times 5 = \square \rightarrow \boxed{\text{O}}$

$2 \times 2 = \square \rightarrow \boxed{\text{R}}$

$7 \times 5 = \square \rightarrow \boxed{\text{D}}$

$3 \times 9 = \square \rightarrow \boxed{\text{F}}$

$11 \times 9 = \square \rightarrow \boxed{\text{L}}$

$1 \times 5 = \square \rightarrow \boxed{\text{C}}$

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

$9 \times 9 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

CLUE 3

Word problems

The referee needs to solve a tricky snack puzzle. Read the word problem carefully to see what the suspect left behind at the penalty box!

Solve each problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with

P								
100	38	113	112	86	35	113	94	

E	R
---	---

 .

Coach Gill found 2 Taki bags yesterday and 98 more today. How many Taki bags in all?

Answer: →

P

There were 112 water bottles. 18 were used up. How many water bottles are left?

Answer: →

T

Coach Gill found 70 water bottles yesterday and 16 more today. How many water bottles in all?

Answer: →

N

There were 143 soccer balls. 30 were used up. How many soccer balls are left?

Answer: →

A

Coach Gill found 21 shiny practice cones yesterday and 17 more today. How many shiny practice cones in all?

Answer: →

L

Coach Gill found 24 Taki bags yesterday and 11 more today. How many Taki bags in all?

Answer: →

W

Coach Gill found 41 referee whistles yesterday and 71 more today. How many referee whistles in all?

Answer: →

I

Scratch space:

CLUE 4
Fractions of a number

The players are sharing a giant box of spicy chips. If we find the correct fraction of the total chips, we will uncover where the suspect ran.

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

A											A			A			
18	3	39	40	8	2	39	22	22	7	17	19	34	18	10	38	18	36
16	31	35	40	10													

$4/10 \text{ of } 45 = \square \rightarrow \text{A}$

$1/2 \text{ of } 62 = \square \rightarrow \text{O}$

$2/8 \text{ of } 40 = \square \rightarrow \text{D}$

$2/6 \text{ of } 57 = \square \rightarrow \text{R}$

$1/2 \text{ of } 44 = \square \rightarrow \text{L}$

$2/3 \text{ of } 60 = \square \rightarrow \text{N}$

$4/10 \text{ of } 85 = \square \rightarrow \text{E}$

$2/8 \text{ of } 28 = \square \rightarrow \text{T}$

$2/3 \text{ of } 3 = \square \rightarrow \text{G}$

$1/10 \text{ of } 160 = \square \rightarrow \text{F}$

$5/10 \text{ of } 72 = \square \rightarrow \text{S}$

$5/6 \text{ of } 42 = \square \rightarrow \text{U}$

$1/2 \text{ of } 16 = \square \rightarrow \text{K}$

$1/4 \text{ of } 68 = \square \rightarrow \text{H}$

$3/5 \text{ of } 65 = \square \rightarrow \text{I}$

$2/3 \text{ of } 57 = \square \rightarrow \text{W}$

$1/2 \text{ of } 6 = \square \rightarrow \text{P}$

Scratch space:

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

We need to divide the practice cones evenly among the five training zones. Sharing them equally reveals the final clue!

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:

$45 \div 5 = \boxed{}$

$96 \div 12 = \boxed{}$

$5 \div 1 = \boxed{}$

$8 \div 2 = \boxed{}$

$70 \div 10 = \boxed{}$

$36 \div 3 = \boxed{}$

$10 \div 10 = \boxed{}$

$66 \div 6 = \boxed{}$

$80 \div 8 = \boxed{}$

$4 \div 2 = \boxed{}$

$6 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain did a giant bicycle kick, then made a lime shockwave.
2. The villain did a giant bicycle kick, then made a nacho vapor cloud.
3. The villain showed off a speed dribble, then made a lime shockwave.
4. The villain blew a sonic whistle blast, then lit a chili sparkler.
5. The villain blew a sonic whistle blast, then made a lime shockwave.
6. The villain did a sneaky slide tackle, then made a nacho vapor cloud.
7. The villain did a giant bicycle kick, then lit a chili sparkler.
8. The villain did a giant bicycle kick, then shot a spicy dust blast.
9. The villain blasted a super header, then lit a chili sparkler.
10. The villain blasted a super header, then built a crunch barrier.
11. The villain did a sneaky slide tackle, then made a lime shockwave.
12. The villain blasted a super header, then made a nacho vapor cloud.

Answer Key

The Great Golden Taki Cup Caper

Culprit: Kevin De Bruyne

Speed dribble · Lime shockwave · Right footed · Pink gills · Plain water

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE NACHO VAPOR"

$2465 + 3712 = 6177$ (T) · $2366 + 2030 = 4396$ (A) · $2888 + 5051 = 7939$ (U) · $1684 + 1423 = 3107$ (O) · $3060 + 2229 = 5289$ (N) · $3641 + 2086 = 5727$ (H) · $1722 + 2771 = 4493$ (E) · $1118 + 1295 = 2413$ (L) · $4561 + 3614 = 8175$ (S) · $4295 + 4201 = 8496$ (D) · $1677 + 1166 = 2843$ (V) · $3345 + 1704 = 5049$ (C) · $1546 + 1827 = 3373$ (R) · $2173 + 1227 = 3400$ (P) · $5866 + 3538 = 9404$ (I)

Clue 2 (Multiplication facts (1-12)): "A RIGHT FOOTED KICK LEFT THE DENT"

$2 \times 11 = 22$ (A) · $4 \times 7 = 28$ (G) · $10 \times 11 = 110$ (K) · $11 \times 11 = 121$ (I) · $10 \times 3 = 30$ (N) · $2 \times 1 = 2$ (T) · $10 \times 5 = 50$ (O) · $2 \times 2 = 4$ (R) · $7 \times 5 = 35$ (D) · $3 \times 9 = 27$ (F) · $11 \times 9 = 99$ (L) · $1 \times 5 = 5$ (C) · $8 \times 10 = 80$ (H) · $9 \times 9 = 81$ (E)

Clue 3 (Word problems): "PLAIN WATER"

Coach Gill found 2 Taki bags yesterday and 98 more today. How many Taki bags in all? = 100 (P) · There were 112 water bottles. 18 were used up. How many water bottles are left? = 94 (T) · Coach Gill found 70 water bottles yesterday and 16 more today. How many water bottles in all? = 86 (N) · There were 143 soccer balls. 30 were used up. How many soccer balls are left? = 113 (A) · Coach Gill found 21 shiny practice cones yesterday and 17 more today. How many shiny practice cones in all? = 38 (L) · Coach Gill found 24 Taki bags yesterday and 11 more today. How many Taki bags in all? = 35 (W) · Coach Gill found 41 referee whistles yesterday and 71 more today. How many referee whistles in all? = 112 (I)

Clue 4 (Fractions of a number): "A PINK GILL THREAD WAS FOUND"

$4/10$ of 45 = 18 (A) · $1/2$ of 62 = 31 (O) · $2/8$ of 40 = 10 (D) · $2/6$ of 57 = 19 (R) · $1/2$ of 44 = 22 (L) · $2/3$ of 60 = 40 (N) · $4/10$ of 85 = 34 (E) · $2/8$ of 28 = 7 (T) · $2/3$ of 3 = 2 (G) · $1/10$ of 160 = 16 (F) · $5/10$ of 72 = 36 (S) · $5/6$ of 42 = 35 (U) · $1/2$ of 16 = 8 (K) · $1/4$ of 68 = 17 (H) · $3/5$ of 65 = 39 (I) · $2/3$ of 57 = 38 (W) · $1/2$ of 6 = 3 (P)

Clue 5 (Division facts (1-12)): surviving statement is box 3 → Kevin De Bruyne

$45 \div 5 = 9$ · $96 \div 12 = 8$ · $5 \div 1 = 5$ · $8 \div 2 = 4$ · $70 \div 10 = 7$ · $36 \div 3 = 12$ · $10 \div 10 = 1$ · $66 \div 6 = 11$ · $80 \div 8 = 10$ · $4 \div 2 = 2$ · $6 \div 1 = 6$