



The Mystery of the Golden Whistle

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

Detective: _____ Date: _____

Someone has swiped the legendary golden whistle right before the big game! The culprit left a trail of snack crumbs across the Frozen Tundra. It is up to you to crack the case, solve the clues, and find out who stole the whistle before kickoff.

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 Sneaky Cheesehead 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	STADIUM GEAR	FOOTWEAR CHOICE	HEADWEAR STYLE	DISTRACTION
Kenny Clark	blitz charge	stadium horn	wearing mud cleats	green stocking cap	cold cheese curds
Daniel Whelan	rocket pass	green jersey	wearing turf shoes	gold knit beanie	cold cheese curds
Quay Walker	rocket pass	foam cheesehead	wearing mud cleats	green stocking cap	loud stadium chants
Xavier McKinney	tundra leap	stadium horn	wearing mud cleats	gold knit beanie	referee whistles
Jayden Reed	stiff arm	warm winter parka	wearing mud cleats	green stocking cap	loud stadium chants
Jordan Love	stiff arm	foam cheesehead	wearing turf shoes	no winter hat	referee whistles
Lukas Van Ness	blitz charge	gold helmet	wearing mud cleats	no winter hat	loud stadium chants
Romeo Doubs	stiff arm	warm winter parka	wearing mud cleats	gold knit beanie	referee whistles
Rashan Gary	stiff arm	gold helmet	wearing turf shoes	no winter hat	loud stadium chants
Preston Smith	stiff arm	green jersey	wearing mud cleats	green stocking cap	cold cheese curds
Josh Jacobs	stiff arm	gold helmet	wearing mud cleats	green stocking cap	cold cheese curds
Matt LaFleur	rocket pass	warm winter parka	wearing mud cleats	gold knit beanie	loud stadium chants
Luke Musgrave	stiff arm	gold helmet	wearing turf shoes	gold knit beanie	loud stadium chants
Jaire Alexander	spin move	warm winter parka	wearing turf shoes	green stocking cap	cold cheese curds
Tucker Kraft	stiff arm	green jersey	wearing mud cleats	no winter hat	cold cheese curds
Karl Brooks	rocket pass	warm winter parka	wearing mud cleats	green stocking cap	cold cheese curds
Brayden Narveson	tundra leap	gold helmet	wearing mud cleats	no winter hat	referee whistles
Devonte Wyatt	rocket pass	foam cheesehead	wearing mud cleats	green stocking cap	cold cheese curds
Aaron Jones	spin move	green jersey	wearing turf shoes	no winter hat	cold cheese curds
Keisean Nixon	rocket pass	gold helmet	wearing mud cleats	gold knit beanie	referee whistles
Dontayvion Wicks	stiff arm	green jersey	wearing turf shoes	green stocking cap	cold cheese curds

CLUE 1 Addition

The equipment manager gathered three piles of footballs from the practice field. Add them together to unlock the first clue.

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

T 7839	7181	4981	T 7839	7181	7481	4981	6042	7364	3790	4981	7644	6722	3790	T 7839	7181	6708	9208	4981
6708	7644	T 7839	6708	7364	7481	8816	6260	7181	3790	2781	6722							

$$4823 + 3016 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$3174 + 3086 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$4158 + 3023 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$4946 + 2535 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$4780 + 2864 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$1793 + 3188 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$1720 + 1061 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$5133 + 2231 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$2206 + 1584 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$2722 + 3986 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$4598 + 2124 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$5928 + 2888 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$3875 + 2167 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$5942 + 3266 = \boxed{} \rightarrow \boxed{\text{V}}$$

Scratch space:

CLUE 2 Subtraction

The digital scoreboard is displaying the wrong scores. Subtract the opponent's score from the Packers' score to reveal the second clue.

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

T																	
1850	6173	3756	5088	8995	4427	6019	1546	7141	1850	4427	3756	1420	1850	3339	3756	3756	6019
4980	8995	3339	5088	4427	3756	7006	1850	4980	7006	1546	2919	2216					

$5253 - 3403 = \square \rightarrow$ T	$8575 - 1569 = \square \rightarrow$ A	$6365 - 3446 = \square \rightarrow$ K
$8570 - 2551 = \square \rightarrow$ P	$3077 - 861 = \square \rightarrow$ S	$5520 - 4100 = \square \rightarrow$ F
$7831 - 3404 = \square \rightarrow$ L	$10664 - 1669 = \square \rightarrow$ U	$7816 - 4060 = \square \rightarrow$ E
$5722 - 742 = \square \rightarrow$ M	$7888 - 2800 = \square \rightarrow$ C	$3744 - 2198 = \square \rightarrow$ R
$10819 - 3678 = \square \rightarrow$ I	$6292 - 119 = \square \rightarrow$ H	$4995 - 1656 = \square \rightarrow$ D

Scratch space:

CLUE 3

Multiplication facts (1-12)

We found a grid of training cones set up in equal rows. Multiply the rows by the columns to get the combination for the next clue.

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

T				T												T			
56	6	60	11	56	88	90	5	5	60	9		33	6	60	2	56	6	60	11
48	120	33		4	6	60	60	48	60	4	110	88	9	48					

$7 \times 8 = \square \rightarrow \boxed{\text{T}}$

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

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

$11 \times 1 = \square \rightarrow \boxed{\text{Y}}$

$3 \times 2 = \square \rightarrow \boxed{\text{H}}$

$11 \times 8 = \square \rightarrow \boxed{\text{R}}$

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

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

$4 \times 12 = \square \rightarrow \boxed{\text{S}}$

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

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

$12 \times 5 = \square \rightarrow \boxed{\text{E}}$

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

$10 \times 9 = \square \rightarrow \boxed{\text{I}}$

Scratch space:

CLUE 4 Rounding

The stadium security camera caught a blurry image of the suspect running. Round their speed to the nearest ten to clear up the image.

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

A																			
2900	290	9000	1300	1300	3000	70	3700	2300	230	20	110	3000	290	230	2900	300			

	A											
370	2900	70	50	1300	5000	3700	500	1300	900	110	3000	4300

Round 2,905 to the nearest hundred → **A**

Round 107 to the nearest ten → **I**

Round 863 to the nearest hundred → **H**

Round 4,317 to the nearest hundred → **D**

Round 366 to the nearest ten → **W**

Round 287 to the nearest ten → **G**

Round 46 to the nearest ten → **L**

Round 3,027 to the nearest thousand → **N**

Round 1,286 to the nearest hundred → **E**

Round 66 to the nearest ten → **S**

Round 2,343 to the nearest hundred → **O**

Round 507 to the nearest hundred → **B**

Round 23 to the nearest ten → **K**

Round 228 to the nearest ten → **C**

Round 4,617 to the nearest thousand → **F**

Round 8,597 to the nearest thousand → **R**

Round 3,659 to the nearest hundred → **T**

Round 271 to the nearest hundred → **P**

Scratch space:

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

The training staff is distributing energy drinks to the squad. Divide the drinks evenly among the players to find the final clue in the leftovers.

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:

$54 \div 9 = \boxed{}$

$28 \div 7 = \boxed{}$

$88 \div 11 = \boxed{}$

$22 \div 2 = \boxed{}$

$49 \div 7 = \boxed{}$

$8 \div 8 = \boxed{}$

$90 \div 10 = \boxed{}$

$20 \div 4 = \boxed{}$

$40 \div 4 = \boxed{}$

$60 \div 5 = \boxed{}$

$4 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain leaps over the wall onto the tundra, then rips their favorite green jersey.
2. The villain leaps over the wall onto the tundra, then loses their foam cheesehead in the rush.
3. The villain stiff arms the mascot to get away, then rips their favorite green jersey.
4. The villain throws a rocket pass across the field, then unzips their warm winter parka.
5. The villain performs a quick spin move past security, then loses their foam cheesehead in the rush.
6. The villain throws a rocket pass across the field, then loses their foam cheesehead in the rush.
7. The villain performs a quick spin move past security, then rips their favorite green jersey.
8. The villain stiff arms the mascot to get away, then drops a heavy gold helmet.
9. The villain charges through the line like a blitz, then rips their favorite green jersey.
10. The villain charges through the line like a blitz, then drops a heavy gold helmet.
11. The villain performs a quick spin move past security, then unzips their warm winter parka.
12. The villain throws a rocket pass across the field, then blows a loud stadium horn.

Answer Key

The Mystery of the Golden Whistle

Culprit: Preston Smith

stiff arm · green jersey · wearing mud cleats · green stocking cap · cold cheese curds

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT HAVE A STADIUM HORN"

$4823 + 3016 = 7839$ (T) · $3174 + 3086 = 6260$ (M) · $4158 + 3023 = 7181$ (H) · $4946 + 2535 = 7481$ (I) · $4780 + 2864 = 7644$ (S) · $1793 + 3188 = 4981$ (E) · $1720 + 1061 = 2781$ (R) · $5133 + 2231 = 7364$ (D) · $2206 + 1584 = 3790$ (O) · $2722 + 3986 = 6708$ (A) · $4598 + 2124 = 6722$ (N) · $5928 + 2888 = 8816$ (U) · $3875 + 2167 = 6042$ (F) · $5942 + 3266 = 9208$ (V)

Clue 2 (Subtraction): "THE CULPRIT LEFT DEEP MUD CLEAT MARKS"

$5253 - 3403 = 1850$ (T) · $8575 - 1569 = 7006$ (A) · $6365 - 3446 = 2919$ (K) · $8570 - 2551 = 6019$ (P) · $3077 - 861 = 2216$ (S) · $5520 - 4100 = 1420$ (F) · $7831 - 3404 = 4427$ (L) · $10664 - 1669 = 8995$ (U) · $7816 - 4060 = 3756$ (E) · $5722 - 742 = 4980$ (M) · $7888 - 2800 = 5088$ (C) · $3744 - 2198 = 1546$ (R) · $10819 - 3678 = 7141$ (I) · $6292 - 119 = 6173$ (H) · $4995 - 1656 = 3339$ (D)

Clue 3 (Multiplication facts (1-12)): "THEY TRIPPED WHEN THEY SAW CHEESE CURDS"

$7 \times 8 = 56$ (T) · $2 \times 2 = 4$ (C) · $10 \times 11 = 110$ (U) · $11 \times 1 = 11$ (Y) · $3 \times 2 = 6$ (H) · $11 \times 8 = 88$ (R) · $1 \times 2 = 2$ (N) · $12 \times 10 = 120$ (A) · $4 \times 12 = 48$ (S) · $1 \times 5 = 5$ (P) · $9 \times 1 = 9$ (D) · $12 \times 5 = 60$ (E) · $11 \times 3 = 33$ (W) · $10 \times 9 = 90$ (I)

Clue 4 (Rounding): "A GREEN STOCKING CAP WAS LEFT BEHIND"

Round 2,905 to the nearest hundred = 2900 (A) · Round 107 to the nearest ten = 110 (I) · Round 863 to the nearest hundred = 900 (H) · Round 4,317 to the nearest hundred = 4300 (D) · Round 366 to the nearest ten = 370 (W) · Round 287 to the nearest ten = 290 (G) · Round 46 to the nearest ten = 50 (L) · Round 3,027 to the nearest thousand = 3000 (N) · Round 1,286 to the nearest hundred = 1300 (E) · Round 66 to the nearest ten = 70 (S) · Round 2,343 to the nearest hundred = 2300 (O) · Round 507 to the nearest hundred = 500 (B) · Round 23 to the nearest ten = 20 (K) · Round 228 to the nearest ten = 230 (C) · Round 4,617 to the nearest thousand = 5000 (F) · Round 8,597 to the nearest thousand = 9000 (R) · Round 3,659 to the nearest hundred = 3700 (T) · Round 271 to the nearest hundred = 300 (P)

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

$54 \div 9 = 6$ · $28 \div 7 = 4$ · $88 \div 11 = 8$ · $22 \div 2 = 11$ · $49 \div 7 = 7$ · $8 \div 8 = 1$ · $90 \div 10 = 9$ · $20 \div 4 = 5$ · $40 \div 4 = 10$ · $60 \div 5 = 12$ · $4 \div 2 = 2$