



The Missing Mascot Trophy

Grade 3 math · Multiplication, Place value, Word problems, Skip counting, Division · Reading level grades 3-4

Detective: _____ Date: _____

Someone snuck into the locker room before the big game and took the Golden Bear Trophy! Help Detective Cub inspect the clues and catch the culprit.

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 Trophy Thief 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	THROWING HAND	HAIRSTYLE	GAME STOP
Roquan Smith	Spin Move	Padded Gloves	Left Handed	Short Buzz	Fumble Drill
Keenan Allen	Cannon Launch	Visor Shield	Left Handed	Long Locks	Whistle Sound
Kyler Gordon	High Leap	Grip Gloves	Left Handed	Shaved Head	Whistle Sound
Cole Kmet	High Leap	Cleat Boost	Left Handed	Shaved Head	Slippery Turf
Olin Kreutz	Blitz Rush	Visor Shield	Right Handed	Short Buzz	Fumble Drill
Jaquan Brisker	Blitz Rush	Visor Shield	Right Handed	Shaved Head	Slippery Turf
Khalil Mack	Blitz Rush	Cleat Boost	Right Handed	Long Locks	Whistle Sound
Tory Taylor	Blitz Rush	Padded Gloves	Right Handed	Short Buzz	Whistle Sound
Caleb Williams	Blitz Rush	Wrist Coach	Right Handed	Long Locks	Whistle Sound
DJ Moore	Cannon Launch	Grip Gloves	Left Handed	Short Buzz	Whistle Sound
Walter Payton	Spin Move	Cleat Boost	Right Handed	Shaved Head	Whistle Sound
Jaylon Johnson	Blitz Rush	Grip Gloves	Right Handed	Shaved Head	Slippery Turf
Brian Urlacher	High Leap	Visor Shield	Left Handed	Shaved Head	Fumble Drill
Cairo Santos	High Leap	Padded Gloves	Left Handed	Shaved Head	Slippery Turf
Tarik Cohen	Cannon Launch	Grip Gloves	Right Handed	Long Locks	Whistle Sound
Tremaine Edmunds	Juke Step	Wrist Coach	Right Handed	Long Locks	Whistle Sound
Montez Sweat	Cannon Launch	Grip Gloves	Left Handed	Short Buzz	Fumble Drill
DAndre Swift	Blitz Rush	Grip Gloves	Right Handed	Long Locks	Whistle Sound
Devin Hester	Cannon Launch	Wrist Coach	Right Handed	Long Locks	Slippery Turf
Matt Forte	Spin Move	Grip Gloves	Left Handed	Shaved Head	Fumble Drill
Rome Odunze	Spin Move	Visor Shield	Right Handed	Shaved Head	Whistle Sound

Multiplication facts (1-12)

The equipment manager found stacks of practice cones arranged in equal rows on the field. Solve this multiplication problem to unlock the first clue!

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

$$12 \times 10 = \boxed{} \rightarrow \boxed{\text{T}}$$

$9 \times 9 = \square \rightarrow \mathbf{A}$

$5 \times 4 = \boxed{} \rightarrow \boxed{\text{E}}$

$$9 \times 10 = \boxed{} \rightarrow \boxed{0}$$

$12 \times 4 = \boxed{} \rightarrow \boxed{\text{H}}$

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

$11 \times 3 = \boxed{} \rightarrow \boxed{\text{R}}$

$$8 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{P}}$$

$$12 \times 7 = \boxed{} \rightarrow \boxed{\text{S}}$$

$1 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$11 \times 8 = \boxed{} \rightarrow \boxed{\text{C}}$

$7 \times 6 = \square \rightarrow \boxed{\mathbf{W}}$

$7 \times 5 = \boxed{} \rightarrow \boxed{\text{L}}$

$11 \times 6 = \square \rightarrow \mathbf{D}$

$$5 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{U}}$$

Scratch space:

CLUE 2 Place value

The digital scoreboard glitched and showed jersey numbers with tens and ones shifted around. Figure out the place value to clear the screen!

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

T								T								
8000	4000	30	1000	90	2000	600	8000	900	2000	8000	200	90	30	800	10	
				T							T					
400	200	500	4000	8000	4000	10	900	800	30	800	8000	4000	400	2000	300	

What is the value of the 8 in 28,754? → T

What is the value of the 1 in 71,665? → S

What is the value of the 9 in 934? → N

What is the value of the 1 in 917? → A

What is the value of the 8 in 9,824? → D

What is the value of the 6 in 8,655? → U

What is the value of the 4 in 1,406? → R

What is the value of the 5 in 1,598? → G

What is the value of the 9 in 6,393? → C

What is the value of the 2 in 270? → I

What is the value of the 4 in 4,583? → H

What is the value of the 3 in 437? → E

What is the value of the 3 in 4,351? → W

What is the value of the 2 in 42,791? → O

Scratch space:

CLUE 3

Word problems

The quarterback needs to count up team stats from practice. Solve this word problem to uncover the next piece of evidence!

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

Someone scared the villain off with

W									O	U	N	D
43	35	58	69	12	59	77	69					

.

There were 78 footballs. 35 were used up. How many footballs are left?

Answer: → **W**

There were 94 playbooks. 17 were used up. How many playbooks are left?

Answer: → **E**

Coach Bear lined up 5 rows of 7 water bottles. How many water bottles in all?

Answer: → **H**

There were 93 practice cones. 34 were used up. How many practice cones are left?

Answer: → **L**

There were 93 footballs. 35 were used up. How many footballs are left?

Answer: → **I**

Coach Bear lined up 3 rows of 4 water bottles. How many water bottles in all?

Answer: → **T**

There were 83 practice cones. 14 were used up. How many practice cones are left?

Answer: → **S**

Scratch space:

CLUE 4

The referee stepped off five-yard lines down the field to mark a penalty. Follow the skip counting pattern to read the note left on the grass!

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

A number line from 0 to 100 with boxes for numbers and their prime factors. The number 6 is highlighted in orange.

Number	Prime Factors
6	2, 3
40	2, 2, 2, 5
20	2, 2, 5
100	2, 2, 5, 5
40	2, 2, 2, 5
18	2, 3, 3
100	2, 2, 5, 5
15	3, 5
21	3, 7
50	2, 5, 5
39	3, 13
39	3, 13
6	2, 3
8	2, 2, 2
42	2, 3, 7
20	2, 2, 5
8	2, 2, 2
26	2, 13
30	2, 3, 5
20	2, 2, 5
8	2, 2, 2
140	2, 2, 2, 5, 7
50	2, 5, 5
39	3, 13
8	2, 2, 2
120	2, 2, 2, 3, 5
18	2, 3, 3
39	3, 13
33	3, 11
24	2, 2, 2, 3
40	2, 2, 2, 5

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **H**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, , 42, 45 → **S**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **W**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **R**

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **L**

Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 → **G**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 → **K**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **U**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 → **M**

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → ☐

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **I**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **D**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **C**

Scratch space:

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

The coach wants to divide practice footballs equally into gear bags. Solve the division puzzle to decode 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:

$56 \div 8 = \boxed{}$

$36 \div 3 = \boxed{}$

$88 \div 11 = \boxed{}$

$33 \div 3 = \boxed{}$

$15 \div 3 = \boxed{}$

$28 \div 7 = \boxed{}$

$11 \div 11 = \boxed{}$

$72 \div 12 = \boxed{}$

$6 \div 2 = \boxed{}$

$60 \div 6 = \boxed{}$

$20 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain threw a deep pass, then checked the wrist coach.
2. The villain kicked a field goal, then flipped the visor shield.
3. The villain blitzed down the field, then flipped the visor shield.
4. The villain made a diving catch, then flipped the visor shield.
5. The villain kicked a field goal, then strapped on padded gloves.
6. The villain threw a deep pass, then adjusted grip gloves.
7. The villain made a diving catch, then checked the wrist coach.
8. The villain made a diving catch, then adjusted grip gloves.
9. The villain blitzed down the field, then checked the wrist coach.
10. The villain snapped the football, then flipped the visor shield.
11. The villain threw a deep pass, then flipped the visor shield.
12. The villain snapped the football, then adjusted grip gloves.

Answer Key

The Missing Mascot Trophy

Culprit: Tremaine Edmunds

Juke Step · Wrist Coach · Right Handed · Long Locks · Whistle Sound

Trail: Start 21 → Clue 1 18 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SUSPECT DOES NOT WEAR A CLEAT BOOST"

$12 \times 10 = 120$ (T) · $9 \times 9 = 81$ (A) · $5 \times 4 = 20$ (E) · $9 \times 10 = 90$ (O) · $12 \times 4 = 48$ (H) · $9 \times 12 = 108$ (N) · $11 \times 3 = 33$ (R) · $8 \times 8 = 64$ (P) · $12 \times 7 = 84$ (S) · $1 \times 7 = 7$ (B) · $11 \times 8 = 88$ (C) · $7 \times 6 = 42$ (W) · $7 \times 5 = 35$ (L) · $11 \times 6 = 66$ (D) · $5 \times 1 = 5$ (U)

Clue 2 (Place value): "THE SCOUT NOTICED A RIGHT HANDED THROW"

What is the value of the 8 in 28,754? = 8000 (T) · What is the value of the 1 in 71,665? = 1000 (S) · What is the value of the 9 in 934? = 900 (N) · What is the value of the 1 in 917? = 10 (A) · What is the value of the 8 in 9,824? = 800 (D) · What is the value of the 6 in 8,655? = 600 (U) · What is the value of the 4 in 1,406? = 400 (R) · What is the value of the 5 in 1,598? = 500 (G) · What is the value of the 9 in 6,393? = 90 (C) · What is the value of the 2 in 270? = 200 (I) · What is the value of the 4 in 4,583? = 4000 (H) · What is the value of the 3 in 437? = 30 (E) · What is the value of the 3 in 4,351? = 300 (W) · What is the value of the 2 in 42,791? = 2000 (O)

Clue 3 (Word problems): "WHISTLE SOUND"

There were 78 footballs. 35 were used up. How many footballs are left? = 43 (W) · There were 94 playbooks. 17 were used up. How many playbooks are left? = 77 (E) · Coach Bear lined up 5 rows of 7 water bottles. How many water bottles in all? = 35 (H) · There were 93 practice cones. 34 were used up. How many practice cones are left? = 59 (L) · There were 93 footballs. 35 were used up. How many footballs are left? = 58 (I) · Coach Bear lined up 3 rows of 4 water bottles. How many water bottles in all? = 12 (T) · There were 83 practice cones. 14 were used up. How many practice cones are left? = 69 (S)

Clue 4 (Skip counting): "HELMET MARKS SHOW LONG LOCKS OUTSIDE"

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (W) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (R) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (L) · Skip-count by 10s. Fill the blank: 10, 20, __, 40, 50 = 30 (G) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, __, 55, 60 = 50 (K) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (U) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 = 40 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (M) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (I) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 = 18 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 = 15 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (C)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Tremaine Edmunds

$56 \div 8 = 7$ · $36 \div 3 = 12$ · $88 \div 11 = 8$ · $33 \div 3 = 11$ · $15 \div 3 = 5$ · $28 \div 7 = 4$ · $11 \div 11 = 1$ · $72 \div 12 = 6$ · $6 \div 2 = 3$ · $60 \div 6 = 10$ · $20 \div 10 = 2$