



The Mascot Trophy Mystery

Grade 5 math · Multiplication, Fractions of a number, Order of operations, Rounding, Division · Reading level grades 5-6

Detective: _____ Date: _____

Someone snuck into the stadium vault and stole the Golden Paw Trophy right before the championship match! Detective, solve the math puzzles to gather clues and identify 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	DOMINANT HAND	HEADWEAR	DISTRACTION
Cristiano Ronaldo	Tackle Blast	Turbo Dribble	Left Handed	Red Headband	Catnip Spray
Alex Morgan	Bicycle Kick	Sonic Whistle	Left Handed	Neon Green Visor	Catnip Spray
Vinicius Jr	Speed Boost	Power Shoot	Left Handed	Red Headband	Catnip Spray
Sam Kerr	Mega Header	Drone Cam	Right Handed	Red Headband	Whistle Blast
Kevin De Bruyne	Bicycle Kick	Drone Cam	Left Handed	Red Headband	Whistle Blast
Antoine Griezmann	Precision Pass	Turbo Dribble	Left Handed	Neon Green Visor	Whistle Blast
Erling Haaland	Tackle Blast	Power Shoot	Right Handed	Neon Green Visor	Catnip Spray
Luka Modric	Precision Pass	Shield Guard	Left Handed	Blue Cap	Whistle Blast
Son Heung min	Tackle Blast	Shield Guard	Left Handed	Red Headband	Catnip Spray
Neymar Jr	Mega Header	Sonic Whistle	Left Handed	Neon Green Visor	Catnip Spray
Kylian Mbappe	Mega Header	Drone Cam	Left Handed	Blue Cap	Catnip Spray
Bruno Fernandes	Tackle Blast	Drone Cam	Right Handed	Red Headband	Catnip Spray
Marta	Bicycle Kick	Sonic Whistle	Right Handed	Neon Green Visor	Catnip Spray
Federico Valverde	Precision Pass	Sonic Whistle	Left Handed	Neon Green Visor	Catnip Spray
Harry Kane	Mega Header	Sonic Whistle	Right Handed	Red Headband	Catnip Spray
Bukayo Saka	Bicycle Kick	Drone Cam	Left Handed	Red Headband	Catnip Spray
Mohamed Salah	Precision Pass	Sonic Whistle	Right Handed	Blue Cap	Whistle Blast
Pedri	Bicycle Kick	Sonic Whistle	Right Handed	Blue Cap	Squeaky Toy
Jude Bellingham	Bicycle Kick	Turbo Dribble	Left Handed	Neon Green Visor	Catnip Spray
Alphonso Davies	Tackle Blast	Shield Guard	Right Handed	Red Headband	Catnip Spray
Marcus Rashford	Mega Header	Sonic Whistle	Left Handed	Red Headband	Catnip Spray

Multiplication facts (1-12)

To count the rows of training cones left near the crime scene, solve this multiplication problem to reveal the first clue.

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

9 11 2 30 110 30 20 2 32 9 18 60 2 30 12 60 9

110 30 2 20 60 132 2 120 30 11 60 60 9

$9 \times 1 = \boxed{} \rightarrow \boxed{\text{T}}$

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

$2 \times 6 = \boxed{} \rightarrow \boxed{\mathbf{N}}$

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

$$12 \times 5 = \boxed{} \rightarrow \boxed{0}$$

$4 \times 8 = \boxed{} \rightarrow \boxed{\text{C}}$

$3 \times 6 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$1 \times 11 = \boxed{} \rightarrow \boxed{\text{H}}$

$$2 \times 1 = \boxed{} \rightarrow \boxed{\mathbf{E}}$$

$12 \times 11 = \boxed{} \rightarrow \boxed{\mathbf{W}}$

$$2 \times 10 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$6 \times 5 = \boxed{} \rightarrow \boxed{\text{S}}$$

Scratch space:

CLUE 2
Fractions of a number

To calculate what fraction of total stadium passes were completed before the trophy disappeared, solve this fraction problem.

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

T										T										T
6	30	18	31	14	31	10	18	7	6	15	31	37	18	5	6					

30	29	35	39	18	39

$2/4 \text{ of } 12 = \square \rightarrow \boxed{\text{T}}$

$4/6 \text{ of } 15 = \square \rightarrow \boxed{\text{P}}$

$2/10 \text{ of } 25 = \square \rightarrow \boxed{\text{F}}$

$1/5 \text{ of } 75 = \square \rightarrow \boxed{\text{I}}$

$3/6 \text{ of } 74 = \square \rightarrow \boxed{\text{L}}$

$3/6 \text{ of } 62 = \square \rightarrow \boxed{\text{S}}$

$3/6 \text{ of } 70 = \square \rightarrow \boxed{\text{N}}$

$1/3 \text{ of } 87 = \square \rightarrow \boxed{\text{A}}$

$7/10 \text{ of } 20 = \square \rightarrow \boxed{\text{U}}$

$4/6 \text{ of } 45 = \square \rightarrow \boxed{\text{H}}$

$2/8 \text{ of } 72 = \square \rightarrow \boxed{\text{E}}$

$5/10 \text{ of } 14 = \square \rightarrow \boxed{\text{C}}$

$4/8 \text{ of } 78 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 3
Order of operations

The stadium security console calculates total stats using strict order of operations. Solve it to decode the third clue.

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

T										T					
45	56	10	14	38	14	18	10	77	45	77	60	24	28	10	

	T									T									
14	45	47	18	18	10	33	28	70	77	60	45	24	52	18	14	18	62	60	70

$$8 \times 7 - 11 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$54 + 8 \times 2 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$65 + 6 \times 2 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$6 + 2 \times 6 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$5 \times 8 - 26 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$7 \times 9 - 7 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$16 + 9 \times 4 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$11 \times 5 - 17 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$2 \times 8 - 6 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$7 \times 10 - 23 = \boxed{} \rightarrow \boxed{\text{O}}$$

$$10 \times 5 - 17 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$11 \times 4 - 16 = \boxed{} \rightarrow \boxed{\text{B}}$$

$$39 + 3 \times 7 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$4 \times 9 - 12 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$7 \times 11 - 15 = \boxed{} \rightarrow \boxed{\text{R}}$$

Scratch space:

CLUE 4 Rounding

The digital attendance scoreboard rounds the fan count to the nearest thousand. Round this number to reveal the fourth clue.

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

T																			
300	430	130	9000	5000	9000	170	130	3700	300	90	130	50	110	9000	50	110	130	290	
430	130	50	290	2900	50	7000	290												

Round 315 to the nearest hundred → **T**

Round 7,484 to the nearest thousand → **N**

Round 134 to the nearest ten → **E**

Round 108 to the nearest ten → **R**

Round 53 to the nearest ten → **A**

Round 4,957 to the nearest thousand → **U**

Round 434 to the nearest ten → **H**

Round 9,008 to the nearest thousand → **S**

Round 2,918 to the nearest hundred → **B**

Round 94 to the nearest ten → **W**

Round 289 to the nearest ten → **D**

Round 168 to the nearest ten → **P**

Round 3,708 to the nearest hundred → **C**

Scratch space:

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

The mascot squad is dividing soccer equipment equally into gear bags. Solve this division problem to get 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:

$28 \div 7 = \boxed{}$

$90 \div 9 = \boxed{}$

$42 \div 7 = \boxed{}$

$30 \div 6 = \boxed{}$

$40 \div 5 = \boxed{}$

$72 \div 6 = \boxed{}$

$9 \div 3 = \boxed{}$

$18 \div 9 = \boxed{}$

$12 \div 12 = \boxed{}$

$44 \div 4 = \boxed{}$

$90 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sent a precision pass through the window, then launched a drone cam to scout the hallway.
2. The villain sent a precision pass through the window, then blew a sonic whistle to confuse the guards.
3. The villain hit a mega header to knock out the camera, then turned on turbo dribble to escape.
4. The villain performed a tackle blast against the gate, then activated a shield guard to block sensors.
5. The villain performed a tackle blast against the gate, then launched a drone cam to scout the hallway.
6. The villain executed a bicycle kick over the wall, then launched a drone cam to scout the hallway.
7. The villain performed a tackle blast against the gate, then turned on turbo dribble to escape.
8. The villain sent a precision pass through the window, then turned on turbo dribble to escape.
9. The villain sent a precision pass through the window, then activated a shield guard to block sensors.
10. The villain hit a mega header to knock out the camera, then blew a sonic whistle to confuse the guards.
11. The villain performed a tackle blast against the gate, then charged up a power shoot to smash the lock.
12. The villain used a speed boost to zoom past security, then turned on turbo dribble to escape.

Answer Key

The Mascot Trophy Mystery

Culprit: Cristiano Ronaldo

Tackle Blast · Turbo Dribble · Left Handed · Red Headband · Catnip Spray

Trail: Start 21 → Clue 1 19 → Clue 2 12 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SUSPECT DOES NOT USE POWER SHOOT"

$9 \times 1 = 9$ (T) · $10 \times 12 = 120$ (R) · $2 \times 6 = 12$ (N) · $10 \times 11 = 110$ (U) · $12 \times 5 = 60$ (O) · $4 \times 8 = 32$ (C) · $3 \times 6 = 18$ (D) · $1 \times 11 = 11$ (H) · $2 \times 1 = 2$ (E) · $12 \times 11 = 132$ (W) · $2 \times 10 = 20$ (P) · $6 \times 5 = 30$ (S)

Clue 2 (Fractions of a number): "THE SUSPECT IS LEFT HANDED"

$\frac{2}{4}$ of 12 = 6 (T) · $\frac{4}{6}$ of 15 = 10 (P) · $\frac{2}{10}$ of 25 = 5 (F) · $\frac{1}{5}$ of 75 = 15 (I) · $\frac{3}{6}$ of 74 = 37 (L) · $\frac{3}{6}$ of 62 = 31 (S) · $\frac{3}{6}$ of 70 = 35 (N) · $\frac{1}{3}$ of 87 = 29 (A) · $\frac{7}{10}$ of 20 = 14 (U) · $\frac{4}{6}$ of 45 = 30 (H) · $\frac{2}{8}$ of 72 = 18 (E) · $\frac{5}{10}$ of 14 = 7 (C) · $\frac{4}{8}$ of 78 = 39 (D)

Clue 3 (Order of operations): "THE SUSPECT CAN BE STOPPED BY CATNIP SPRAY"

$8 \times 7 - 11 = 45$ (T) · $54 + 8 \times 2 = 70$ (Y) · $65 + 6 \times 2 = 77$ (C) · $6 + 2 \times 6 = 18$ (P) · $5 \times 8 - 26 = 14$ (S) · $7 \times 9 - 7 = 56$ (H) · $16 + 9 \times 4 = 52$ (I) · $11 \times 5 - 17 = 38$ (U) · $2 \times 8 - 6 = 10$ (E) · $7 \times 10 - 23 = 47$ (O) · $10 \times 5 - 17 = 33$ (D) · $11 \times 4 - 16 = 28$ (B) · $39 + 3 \times 7 = 60$ (A) · $4 \times 9 - 12 = 24$ (N) · $7 \times 11 - 15 = 62$ (R)

Clue 4 (Rounding): "THE SUSPECT WEARS A RED HEADBAND"

Round 315 to the nearest hundred = 300 (T) · Round 7,484 to the nearest thousand = 7000 (N) · Round 134 to the nearest ten = 130 (E) · Round 108 to the nearest ten = 110 (R) · Round 53 to the nearest ten = 50 (A) · Round 4,957 to the nearest thousand = 5000 (U) · Round 434 to the nearest ten = 430 (H) · Round 9,008 to the nearest thousand = 9000 (S) · Round 2,918 to the nearest hundred = 2900 (B) · Round 94 to the nearest ten = 90 (W) · Round 289 to the nearest ten = 290 (D) · Round 168 to the nearest ten = 170 (P) · Round 3,708 to the nearest hundred = 3700 (C)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Cristiano Ronaldo

$28 \div 7 = 4$ · $90 \div 9 = 10$ · $42 \div 7 = 6$ · $30 \div 6 = 5$ · $40 \div 5 = 8$ · $72 \div 6 = 12$ · $9 \div 3 = 3$ · $18 \div 9 = 2$ · $12 \div 12 = 1$ · $44 \div 4 = 11$ · $90 \div 10 = 9$