The Missing Mascot Trophy

Grade 4 math · Place value, Rounding, Addition, Subtraction, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Iceburgh's shiny gold trophy vanished right before faceoff! Detective Pen needs your math skills to figure out who took it.

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 Puck Thief is _____

Possible suspects

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

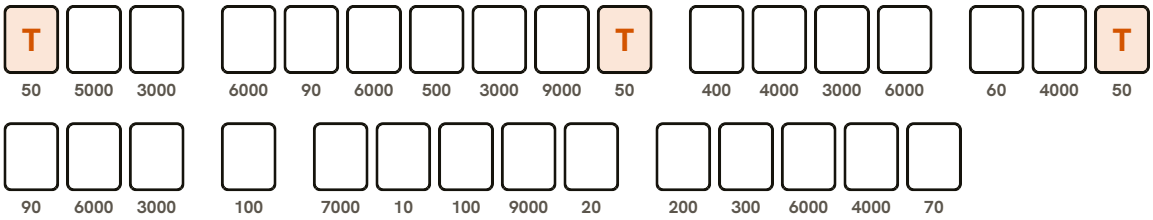
NAME	SIGNATURE MOVE	SPECIAL GEAR	SHOOTING STANCE	HELMET TRIM	GEAR FLAW
Pascal Dupuis	Five Hole Shut	Silver Skates	Right Handed Shooter	White Trim	Broken Lace
Sidney Crosby	Wrist Shot	Black Visor	Right Handed Shooter	Black Trim	Foggy Visor
Matt Murray	Five Hole Shut	Gold Helmet	Right Handed Shooter	Gold Trim	Broken Lace
Marcus Pettersson	Slapshot	Black Visor	Left Handed Shooter	Black Trim	Slippery Ice
Jaromir Jagr	Glove Save	Black Visor	Left Handed Shooter	Gold Trim	Broken Lace
Kevin Stevens	Five Hole Shut	Silver Skates	Left Handed Shooter	Gold Trim	Broken Lace
Jordan Staal	Five Hole Shut	Silver Skates	Left Handed Shooter	Black Trim	Foggy Visor
Rickard Rakell	Wrist Shot	Silver Skates	Right Handed Shooter	Black Trim	Foggy Visor
Brooks Orpik	Wrist Shot	Padded Gloves	Right Handed Shooter	Black Trim	Foggy Visor
Colby Armstrong	Glove Save	Custom Stick	Right Handed Shooter	Black Trim	Broken Lace
Max Talbot	Five Hole Shut	Padded Gloves	Left Handed Shooter	Black Trim	Foggy Visor
Kris Letang	Five Hole Shut	Black Visor	Right Handed Shooter	Gold Trim	Foggy Visor
Tyler Kennedy	Five Hole Shut	Padded Gloves	Left Handed Shooter	Gold Trim	Slippery Ice
Ron Francis	Slapshot	Gold Helmet	Right Handed Shooter	White Trim	Foggy Visor
Evgeni Malkin	Poke Check	Gold Helmet	Left Handed Shooter	Black Trim	Slippery Ice
Jake Guentzel	Slapshot	Silver Skates	Right Handed Shooter	Black Trim	Foggy Visor
Tristan Jarry	Wrist Shot	Gold Helmet	Right Handed Shooter	Black Trim	Foggy Visor
Mario Lemieux	Slapshot	Black Visor	Left Handed Shooter	Gold Trim	Slippery Ice
Larry Murphy	Wrist Shot	Silver Skates	Right Handed Shooter	White Trim	Slippery Ice
Patric Hornqvist	Glove Save	Gold Helmet	Right Handed Shooter	Gold Trim	Broken Lace
Chris Kunitz	Five Hole Shut	Gold Helmet	Right Handed Shooter	Black Trim	Broken Lace

make your own at mathcrackers.com

CLUE 1 Place value

> Check the digital locker codes on the wall. Find the value of the highlighted digit to reveal your first suspect clue.

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



What is the value of the 5 in 758? ☐ → T

What is the value of the 4 in 488? ☐ → D

What is the value of the 9 in 69,103? ☐ → C

What is the value of the 9 in 496? ☐ → U

What is the value of the 4 in 4,118? ☐ → O

What is the value of the 7 in 8,178? ☐ → R

What is the value of the 2 in 525? ☐ → K

What is the value of the 6 in 4,969? ☐ → N

What is the value of the 6 in 96,588? ☐ → S

What is the value of the 3 in 9,394? ☐ → I

What is the value of the 1 in 619? ☐ → L

What is the value of the 7 in 7,846? ☐ → B

What is the value of the 1 in 6,132? ☐ → A

What is the value of the 5 in 3,576? ☐ → P

What is the value of the 5 in 45,612? ☐ → H

What is the value of the 2 in 254? ☐ → V

What is the value of the 3 in 3,141? ☐ → E

Scratch space:

CLUE 2 Rounding

The arena scoreboard rounds all stats to the nearest hundred. Round these numbers to unlock the next clue.

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

| | | |

CLUE 3 Addition

Coach needs to tally the total practice pucks gathered from all three rinks. Add the numbers together.

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



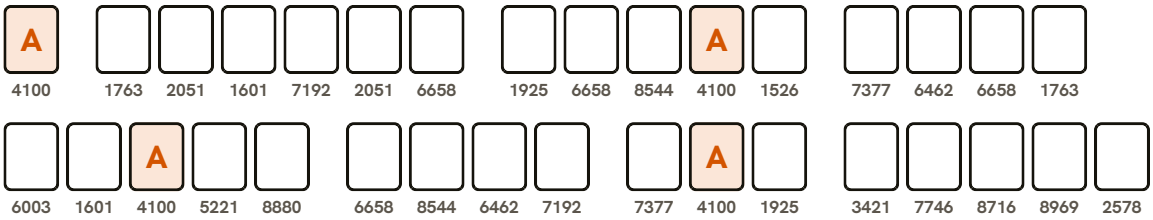
2804 + 2378 = ☐ → T	4400 + 4885 = ☐ → R	2394 + 1980 = ☐ → V
1263 + 2032 = ☐ → B	3241 + 3894 = ☐ → A	3903 + 3595 = ☐ → H
3508 + 4658 = ☐ → F	1542 + 896 = ☐ → I	1215 + 883 = ☐ → W
4701 + 3964 = ☐ → O	5221 + 4036 = ☐ → E	4171 + 5053 = ☐ → U
5903 + 3611 = ☐ → C	4995 + 2835 = ☐ → L	1712 + 779 = ☐ → S
3419 + 6257 = ☐ → Y	5280 + 3785 = ☐ → G	2990 + 5084 = ☐ → D

Scratch space:

CLUE 4 Subtraction

> The equipment manager is checking how many water bottles are still missing from the bench. Subtract to find out.

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



7919 - 3819 = ☐ → A

9279 - 399 = ☐ → K

5892 - 3841 = ☐ → E

2168 - 405 = ☐ → H

3761 - 1836 = ☐ → S

9124 - 2662 = ☐ → I

7174 - 1171 = ☐ → B

5142 - 3616 = ☐ → P

11674 - 3928 = ☐ → O

4602 - 1181 = ☐ → F

7067 - 4489 = ☐ → D

8530 - 1153 = ☐ → W

8251 - 3030 = ☐ → C

11084 - 2115 = ☐ → N

10722 - 4064 = ☐ → T

11218 - 2502 = ☐ → U

8617 - 1425 = ☐ → M

4384 - 2783 = ☐ → L

8608 - 64 = ☐ → R

Scratch space:

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

Divide the total energy bars equally among the forward lines to find the last hidden 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:

60 ÷ 5 = ☐ | 120 ÷ 12 = ☐ | 80 ÷ 10 = ☐ | 72 ÷ 8 = ☐ | 2 ÷ 1 = ☐

60 ÷ 10 = ☐ | 22 ÷ 2 = ☐ | 3 ÷ 1 = ☐ | 15 ÷ 3 = ☐ | 40 ÷ 10 = ☐

4 ÷ 4 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain sealed the five hole, then taped the custom stick.
2. The villain snagged a glove save, then tightened the padded gloves.
3. The villain made a poke check, then adjusted the gold helmet.
4. The villain fired a quick slapshot, then taped the custom stick.
5. The villain sealed the five hole, then cleared the black visor.
6. The villain sealed the five hole, then tightened the padded gloves.
7. The villain fired a quick slapshot, then sharpened the silver skates.
8. The villain snapped a wrist shot, then adjusted the gold helmet.
9. The villain sealed the five hole, then sharpened the silver skates.
10. The villain snapped a wrist shot, then sharpened the silver skates.
11. The villain snapped a wrist shot, then taped the custom stick.
12. The villain snapped a wrist shot, then tightened the padded gloves.

TEACHER / PARENT

Answer Key

The Missing Mascot Trophy

Culprit: Jake Guentzel

Slapshot · Silver Skates · Right Handed Shooter · Black Trim · Foggy Visor

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SUSPECT DOES NOT USE A BLACK VISOR"

What is the value of the 5 in 758? = 50 (T) · What is the value of the 4 in 488? = 400 (D) · What is the value of the 9 in 69,103? = 9000 (C) · What is the value of the 9 in 496? = 90 (U) · What is the value of the 4 in 4,118? = 4000 (O) · What is the value of the 7 in 8,178? = 70 (R) · What is the value of the 2 in 525? = 20 (K) · What is the value of the 6 in 4,969? = 60 (N) · What is the value of the 6 in 96,588? = 6000 (S) · What is the value of the 3 in 9,394? = 300 (I) · What is the value of the 1 in 619? = 10 (L) · What is the value of the 7 in 7,846? = 7000 (B) · What is the value of the 1 in 6,132? = 100 (A) · What is the value of the 5 in 3,576? = 500 (P) · What is the value of the 5 in 45,612? = 5000 (H) · What is the value of the 2 in 254? = 200 (V) · What is the value of the 3 in 3,141? = 3000 (E)

Clue 2 (Rounding): "WITNESS SAW A RIGHT HANDED SHOOTER ON ICE"

Round 4,344 to the nearest hundred = 4300 (W) · Round 114 to the nearest ten = 110 (A) · Round 176 to the nearest hundred = 200 (D) · Round 1,067 to the nearest hundred = 1100 (R) · Round 430 to the nearest ten = 430 (O) · Round 17 to the nearest ten = 20 (H) · Round 3,729 to the nearest hundred = 3700 (S) · Round 372 to the nearest ten = 370 (I) · Round 127 to the nearest ten = 130 (G) · Round 94 to the nearest ten = 90 (N) · Round 170 to the nearest ten = 170 (E) · Round 7,475 to the nearest thousand = 7000 (C) · Round 2,510 to the nearest thousand = 3000 (T)

Clue 3 (Addition): "THE FOIL WAS CAUSED BY A FOGGY VISOR"

2804 + 2378 = 5182 (T) · 4400 + 4885 = 9285 (R) · 2394 + 1980 = 4374 (V) · 1263 + 2032 = 3295 (B) · 3241 + 3894 = 7135 (A) · 3903 + 3595 = 7498 (H) · 3508 + 4658 = 8166 (F) · 1542 + 896 = 2438 (I) · 1215 + 883 = 2098 (W) · 4701 + 3964 = 8665 (O) · 5221 + 4036 = 9257 (E) · 4171 + 5053 = 9224 (U) · 5903 + 3611 = 9514 (C) · 4995 + 2835 = 7830 (L) · 1712 + 779 = 2491 (S) · 3419 + 6257 = 9676 (Y) · 5280 + 3785 = 9065 (G) · 2990 + 5084 = 8074 (D)

Clue 4 (Subtraction): "A HELMET STRAP WITH BLACK TRIM WAS FOUND"

7919 - 3819 = 4100 (A) · 9279 - 399 = 8880 (K) · 5892 - 3841 = 2051 (E) · 2168 - 405 = 1763 (H) · 3761 - 1836 = 1925 (S) · 9124 - 2662 = 6462 (I) · 7174 - 1171 = 6003 (B) · 5142 - 3616 = 1526 (P) · 11674 - 3928 = 7746 (O) · 4602 - 1181 = 3421 (F) · 7067 - 4489 = 2578 (D) · 8530 - 1153 = 7377 (W) · 8251 - 3030 = 5221 (C) · 11084 - 2115 = 8969 (N) · 10722 - 4064 = 6658 (T) · 11218 - 2502 = 8716 (U) · 8617 - 1425 = 7192 (M) · 4384 - 2783 = 1601 (L) · 8608 - 64 = 8544 (R)

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

60 ÷ 5 = 12 · 120 ÷ 12 = 10 · 80 ÷ 10 = 8 · 72 ÷ 8 = 9 · 2 ÷ 1 = 2 · 60 ÷ 10 = 6 · 22 ÷ 2 = 11 · 3 ÷ 1 = 3 · 15 ÷ 3 = 5 · 40 ÷ 10 = 4 · 4 ÷ 4 = 1