The Grand Slam Trophy Mystery

Grade 5 math · Addition, Subtraction, Multiplication, Fractions of a number, Division · Reading level grades 5-6

Detective: _____ **Date:** _____

Just before the championship game under the stadium lights, someone snuck into the dugout and swiped the golden trophy! The detective squad must examine field evidence, interview players, and crack coded notes to find 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 Bandit 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	FIELD GEAR	THROWING HAND	HAIRSTYLE	FIELD OBSTACLE
Paige Parker	power hit	visor glare	left handed	straight cap tuck	broken bats
NiJaree Canady	lightning dash	cleat spikes	left handed	curly high bun	soggy baseballs
Skylar Wallace	lightning dash	bat swing	left handed	curly high bun	soggy baseballs
Lauren Haeger	stealth bunt	cleat spikes	right handed	straight cap tuck	broken bats
Jennie Finch	stealth bunt	glove flash	right handed	straight cap tuck	broken bats
Monica Abbott	power hit	glove flash	right handed	braided ponytail	slippery rosin
Taylor Gindlesperger	rocket throw	visor glare	right handed	curly high bun	soggy baseballs
Maya Brady	power hit	sliding catch	left handed	curly high bun	slippery rosin
Haylie McCleney	power hit	visor glare	left handed	straight cap tuck	soggy baseballs
Sis Bates	lightning dash	sliding catch	right handed	straight cap tuck	broken bats
Keilani Ricketts	rocket throw	sliding catch	right handed	straight cap tuck	soggy baseballs
Jocelyn Alo	rocket throw	glove flash	right handed	straight cap tuck	soggy baseballs
Kelly Maxwell	fireball pitch	bat swing	right handed	curly high bun	slippery rosin
Montana Fouts	lightning dash	glove flash	right handed	braided ponytail	slippery rosin
Alana Vawter	stealth bunt	cleat spikes	left handed	straight cap tuck	soggy baseballs
Kinzie Hansen	rocket throw	bat swing	right handed	braided ponytail	broken bats
Tiare Jennings	lightning dash	glove flash	right handed	braided ponytail	broken bats
Rachel Garcia	stealth bunt	visor glare	right handed	straight cap tuck	broken bats
Valerie Cagle	power hit	sliding catch	left handed	straight cap tuck	broken bats
Sierra Romero	fireball pitch	cleat spikes	left handed	braided ponytail	broken bats
Megan Wiggins	stealth bunt	bat swing	right handed	straight cap tuck	broken bats

CLUE 1 Addition

Coach Rivera tallies up all the practice softballs to find the first coded message.

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



1784 + 3003 = ☐ → T	3948 + 1746 = ☐ → B	4849 + 4174 = ☐ → U
5426 + 3695 = ☐ → O	2514 + 2275 = ☐ → W	3701 + 5736 = ☐ → I
6133 + 2648 = ☐ → N	3325 + 2288 = ☐ → V	3398 + 4547 = ☐ → G
5032 + 2672 = ☐ → L	2460 + 2980 = ☐ → D	3443 + 4324 = ☐ → A
954 + 1965 = ☐ → S	4195 + 4536 = ☐ → E	1275 + 1497 = ☐ → H

Scratch space:

CLUE 2 Subtraction

Comparing run totals on the scoreboard reveals a digit etched into the dugout wall.

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



3573 - 279 = ☐ → W

8484 - 4986 = ☐ → D

5877 - 1748 = ☐ → O

7144 - 2382 = ☐ → T

4183 - 2276 = ☐ → H

12114 - 4271 = ☐ → S

3068 - 287 = ☐ → R

9299 - 1206 = ☐ → F

5626 - 919 = ☐ → E

10921 - 3066 = ☐ → N

4457 - 1901 = ☐ → I

9062 - 2246 = ☐ → G

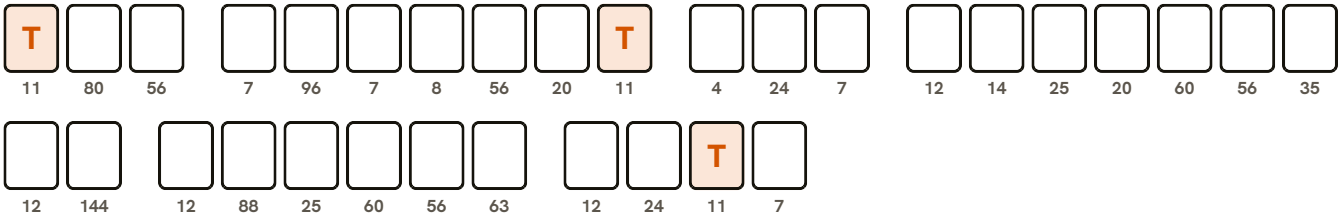
6593 - 2934 = ☐ → A

Scratch space:

CLUE 3 Multiplication facts (1-12)

> Counting rows of championship helmets leads the team to a hidden locker key.

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



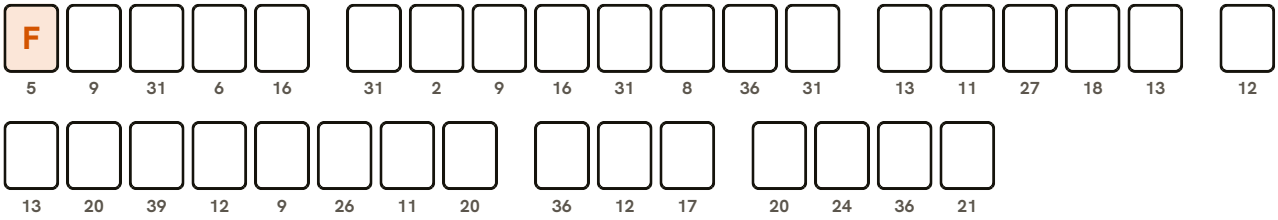
11 × 1 = ☐ → T	4 × 2 = ☐ → P	12 × 12 = ☐ → Y	
1 × 4 = ☐ → W	7 × 8 = ☐ → E	2 × 6 = ☐ → B	7 × 1 = ☐ → S
5 × 12 = ☐ → K	7 × 5 = ☐ → D	9 × 7 = ☐ → N	7 × 2 = ☐ → L
5 × 4 = ☐ → C	10 × 8 = ☐ → H	8 × 12 = ☐ → U	
11 × 8 = ☐ → R	5 × 5 = ☐ → O	8 × 3 = ☐ → A	

Scratch space:

CLUE 4 Fractions of a number

Calculating the fraction of full rosin bags left in the bin uncovers another clue.

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



1/6 of 30 = ☐ → F

1/6 of 102 = ☐ → P

1/5 of 155 = ☐ → E

6/10 of 65 = ☐ → R

2/8 of 144 = ☐ → C

4/5 of 10 = ☐ → N

3/10 of 70 = ☐ → K

3/6 of 26 = ☐ → S

1/8 of 96 = ☐ → A

1/2 of 4 = ☐ → V

1/3 of 54 = ☐ → W

1/10 of 160 = ☐ → D

8/10 of 30 = ☐ → U

2/4 of 22 = ☐ → H

3/8 of 72 = ☐ → O

1/6 of 120 = ☐ → T

2/5 of 15 = ☐ → L

1/3 of 78 = ☐ → G

5/10 of 18 = ☐ → I

Scratch space:

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

> Dividing team sports drink bottles evenly among benches reveals the final secret code.

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:

72 ÷ 8 = ☐	10 ÷ 1 = ☐	1 ÷ 1 = ☐	20 ÷ 4 = ☐	15 ÷ 5 = ☐
12 ÷ 1 = ☐	60 ÷ 10 = ☐	24 ÷ 3 = ☐	4 ÷ 2 = ☐	28 ÷ 4 = ☐
48 ÷ 12 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain laid down a stealth bunt, then dug in with cleat spikes.
2. The villain crushed a power hit, then swung with a bat swing.
3. The villain laid down a stealth bunt, then swung with a bat swing.
4. The villain made a rocket throw, then showed a glove flash.
5. The villain ran with a lightning dash, then flashed a visor glare.
6. The villain threw a fireball pitch, then flashed a visor glare.
7. The villain threw a fireball pitch, then made a sliding catch.
8. The villain laid down a stealth bunt, then made a sliding catch.
9. The villain ran with a lightning dash, then made a sliding catch.
10. The villain laid down a stealth bunt, then showed a glove flash.
11. The villain laid down a stealth bunt, then flashed a visor glare.
12. The villain threw a fireball pitch, then showed a glove flash.

TEACHER / PARENT

Answer Key

The Grand Slam Trophy Mystery

Culprit: Rachel Garcia

stealth bunt · visor glare · right handed · straight cap tuck · broken bats

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A BAT SWING"

1784 + 3003 = 4787 (T) · 3948 + 1746 = 5694 (B) · 4849 + 4174 = 9023 (U) · 5426 + 3695 = 9121 (O) · 2514 + 2275 = 4789 (W) · 3701 + 5736 = 9437 (I) · 6133 + 2648 = 8781 (N) · 3325 + 2288 = 5613 (V) · 3398 + 4547 = 7945 (G) · 5032 + 2672 = 7704 (L) · 2460 + 2980 = 5440 (D) · 3443 + 4324 = 7767 (A) · 954 + 1965 = 2919 (S) · 4195 + 4536 = 8731 (E) · 1275 + 1497 = 2772 (H)

Clue 2 (Subtraction): "WITNESS SAW A RIGHT HANDED THROW TO FIRST"

3573 - 279 = 3294 (W) · 8484 - 4986 = 3498 (D) · 5877 - 1748 = 4129 (O) · 7144 - 2382 = 4762 (T) · 4183 - 2276 = 1907 (H) · 12114 - 4271 = 7843 (S) · 3068 - 287 = 2781 (R) · 9299 - 1206 = 8093 (F) · 5626 - 919 = 4707 (E) · 10921 - 3066 = 7855 (N) · 4457 - 1901 = 2556 (I) · 9062 - 2246 = 6816 (G) · 6593 - 2934 = 3659 (A)

Clue 3 (Multiplication facts (1-12)): "THE SUSPECT WAS BLOCKED BY BROKEN BATS"

11 × 1 = 11 (T) · 4 × 2 = 8 (P) · 12 × 12 = 144 (Y) · 1 × 4 = 4 (W) · 7 × 8 = 56 (E) · 2 × 6 = 12 (B) · 7 × 1 = 7 (S) · 5 × 12 = 60 (K) · 7 × 5 = 35 (D) · 9 × 7 = 63 (N) · 7 × 2 = 14 (L) · 5 × 4 = 20 (C) · 10 × 8 = 80 (H) · 8 × 12 = 96 (U) · 11 × 8 = 88 (R) · 5 × 5 = 25 (O) · 8 × 3 = 24 (A)

Clue 4 (Fractions of a number): "FIELD EVIDENCE SHOWS A STRAIGHT CAP TUCK"

1/6 of 30 = 5 (F) · 1/6 of 102 = 17 (P) · 1/5 of 155 = 31 (E) · 6/10 of 65 = 39 (R) · 2/8 of 144 = 36 (C) · 4/5 of 10 = 8 (N) · 3/10 of 70 = 21 (K) · 3/6 of 26 = 13 (S) · 1/8 of 96 = 12 (A) · 1/2 of 4 = 2 (V) · 1/3 of 54 = 18 (W) · 1/10 of 160 = 16 (D) · 8/10 of 30 = 24 (U) · 2/4 of 22 = 11 (H) · 3/8 of 72 = 27 (O) · 1/6 of 120 = 20 (T) · 2/5 of 15 = 6 (L) · 1/3 of 78 = 26 (G) · 5/10 of 18 = 9 (I)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Rachel Garcia

72 ÷ 8 = 9 · 10 ÷ 1 = 10 · 1 ÷ 1 = 1 · 20 ÷ 4 = 5 · 15 ÷ 5 = 3 · 12 ÷ 1 = 12 · 60 ÷ 10 = 6 · 24 ÷ 3 = 8 · 4 ÷ 2 = 2 · 28 ÷ 4 = 7 · 48 ÷ 12 = 4