The Mystery of the Missing Championship Trophy

Grade 6 math · Multiplication, Percentages, Exponents, Order of operations, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

The golden championship trophy vanished right before the big finals match at Slam Dunk Arena! The head coach needs your help to decode the clues, analyze the suspect roster, and find out who snatched the trophy before tip-off.

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	SHOOTING HAND	HAIR STYLE	ARENA WEAKNESS
Kobe Vance	Skyhook	Jet Sneakers	Right Handed	Buzz Cut	Loud Whistle
Keira Bell	Skyhook	Glow Shoes	Right Handed	Braided Hair	Squeaky Floor
Amara Cole	Slam Dunk	Power Wristband	Left Handed	Buzz Cut	Squeaky Floor
Lucas Wright	Crossover	Laser Goggles	Right Handed	Braided Hair	Loud Whistle
Skyler Paige	Crossover	Sticky Gloves	Right Handed	Braided Hair	Loud Whistle
Jade Sterling	Slam Dunk	Power Wristband	Right Handed	Braided Hair	Loud Whistle
Devon Harper	Three Pointer	Jet Sneakers	Right Handed	Buzz Cut	Loud Whistle
Nia Brooks	Slam Dunk	Jet Sneakers	Right Handed	Braided Hair	Squeaky Floor
Caleb Stone	Three Pointer	Laser Goggles	Left Handed	Curly Afro	Loud Whistle
Tasha Banks	Crossover	Power Wristband	Left Handed	Braided Hair	Loud Whistle
Zoe Miller	Three Pointer	Glow Shoes	Right Handed	Buzz Cut	Buzzer Sound
Leo Vance	Skyhook	Power Wristband	Right Handed	Braided Hair	Loud Whistle
Marcus Blake	Eurostep	Jet Sneakers	Left Handed	Braided Hair	Loud Whistle
Sienna Rhodes	Eurostep	Power Wristband	Left Handed	Braided Hair	Squeaky Floor
Maya Lin	Slam Dunk	Glow Shoes	Right Handed	Buzz Cut	Squeaky Floor
Aaliyah King	Skyhook	Sticky Gloves	Right Handed	Curly Afro	Squeaky Floor
Xavier Vance	Three Pointer	Jet Sneakers	Right Handed	Braided Hair	Loud Whistle
Tyson Ross	Three Pointer	Sticky Gloves	Right Handed	Braided Hair	Squeaky Floor
Elena Cruz	Crossover	Sticky Gloves	Left Handed	Curly Afro	Loud Whistle
Darius Ford	Three Pointer	Sticky Gloves	Left Handed	Braided Hair	Buzzer Sound
Jaxson Reed	Slam Dunk	Laser Goggles	Right Handed	Curly Afro	Loud Whistle

CLUE 1 Multiplication facts (1-12)

Coach Rex counts equal rows of basketball crates in the storage locker to unlock the first locker room code.

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

T																		T	
22	64	99	121	2	56	56	6	2	30	50	25	99	9	30	25	22			

14	99	6	72	56	6	9	99	72	16	25	16	16	56	99	9				

2 × 11 = ☐ → T

5 × 5 = ☐ → O

10 × 5 = ☐ → D

2 × 7 = ☐ → W

8 × 8 = ☐ → H

11 × 11 = ☐ → V

8 × 9 = ☐ → R

9 × 1 = ☐ → S

2 × 8 = ☐ → G

11 × 9 = ☐ → E

6 × 5 = ☐ → N

1 × 2 = ☐ → I

3 × 2 = ☐ → A

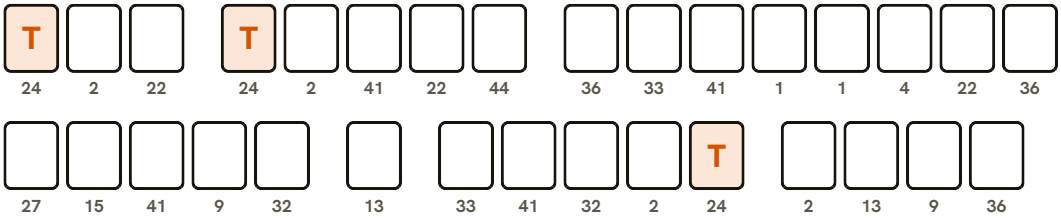
7 × 8 = ☐ → L

Scratch space:

CLUE 2 Percentages

The statkeeper calculates the shooting percentage on the digital scoreboard to reveal a secret witness note.

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



50% of 48 = ☐ → T

10% of 270 = ☐ → U

50% of 66 = ☐ → R

40% of 5 = ☐ → H

5% of 640 = ☐ → G

5% of 440 = ☐ → E

10% of 410 = ☐ → I

40% of 110 = ☐ → F

5% of 720 = ☐ → D

75% of 20 = ☐ → S

5% of 20 = ☐ → B

40% of 10 = ☐ → L

5% of 260 = ☐ → A

50% of 18 = ☐ → N

Scratch space:

CLUE 3 Exponents

The arena manager reads the power grid exponent level on the court lights to power up the clue reader.

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



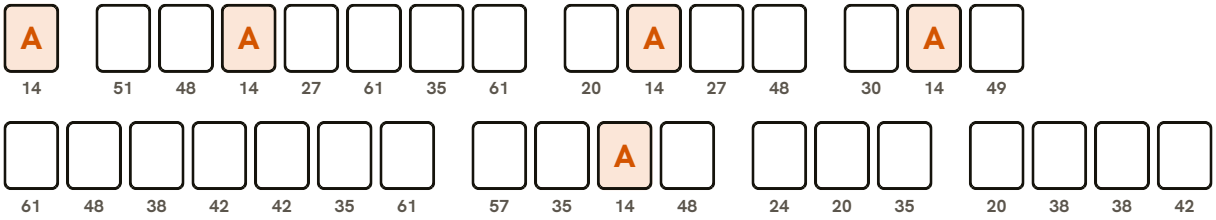
3^2 = ☐ → A	9^2 = ☐ → S	12^2 = ☐ → V	3^3 = ☐ → O
7^3 = ☐ → W	5^3 = ☐ → M	2^3 = ☐ → U	3^5 = ☐ → R
6^2 = ☐ → T	6^3 = ☐ → I	17^2 = ☐ → D	14^2 = ☐ → F
18^2 = ☐ → E	10^2 = ☐ → C	2^5 = ☐ → L	7^2 = ☐ → H

Scratch space:

CLUE 4 Order of operations

The referee follows the order of operations on the court scoreboard to solve the master lock phrase.

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



4 × 5 - 6 = ☐ → A

16 + 7 × 2 = ☐ → W

13 + 2 × 7 = ☐ → I

8 × 7 - 7 = ☐ → S

10 × 6 - 18 = ☐ → P

6 + 9 × 2 = ☐ → T

8 × 8 - 7 = ☐ → N

7 × 7 - 14 = ☐ → E

6 × 4 - 4 = ☐ → H

9 × 7 - 25 = ☐ → O

43 + 2 × 4 = ☐ → B

34 + 2 × 7 = ☐ → R

37 + 6 × 4 = ☐ → D

Scratch space:

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

> The assistant coach divides the remaining water bottles equally among the player benches to find a hidden key.

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 ÷ 7 = ☐ | 48 ÷ 4 = ☐ | 20 ÷ 2 = ☐ | 6 ÷ 6 = ☐ | 27 ÷ 3 = ☐

33 ÷ 11 = ☐ | 35 ÷ 7 = ☐ | 18 ÷ 9 = ☐ | 70 ÷ 10 = ☐ | 44 ÷ 4 = ☐

96 ÷ 12 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain used a fast crossover, then laced up glow shoes.
2. The villain used a fast crossover, then tapped a power wristband.
3. The villain executed a quick eurostep, then adjusted sticky gloves.
4. The villain threw down a slam dunk, then tapped a power wristband.
5. The villain executed a quick eurostep, then laced up glow shoes.
6. The villain used a fast crossover, then adjusted sticky gloves.
7. The villain executed a quick eurostep, then tapped a power wristband.
8. The villain sank a smooth skyhook, then put on laser goggles.
9. The villain executed a quick eurostep, then put on laser goggles.
10. The villain drained a three pointer, then turned on jet sneakers.
11. The villain threw down a slam dunk, then put on laser goggles.
12. The villain sank a smooth skyhook, then tapped a power wristband.

TEACHER / PARENT

Answer Key

The Mystery of the Missing Championship Trophy

Culprit: Skyler Paige

Crossover · Sticky Gloves · Right Handed · Braided Hair · Loud Whistle

Trail: Start 21 → Clue 1 18 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT WEAR LASER GOGGLES"

2 × 11 = 22 (T) · 5 × 5 = 25 (O) · 10 × 5 = 50 (D) · 2 × 7 = 14 (W) · 8 × 8 = 64 (H) · 11 × 11 = 121 (V) · 8 × 9 = 72 (R) · 9 × 1 = 9 (S) · 2 × 8 = 16 (G) · 11 × 9 = 99 (E) · 6 × 5 = 30 (N) · 1 × 2 = 2 (I) · 3 × 2 = 6 (A) · 7 × 8 = 56 (L)

Clue 2 (Percentages): "THE THIEF DRIBBLED USING A RIGHT HAND"

50% of 48 = 24 (T) · 10% of 270 = 27 (U) · 50% of 66 = 33 (R) · 40% of 5 = 2 (H) · 5% of 640 = 32 (G) · 5% of 440 = 22 (E) · 10% of 410 = 41 (I) · 40% of 110 = 44 (F) · 5% of 720 = 36 (D) · 75% of 20 = 15 (S) · 5% of 20 = 1 (B) · 40% of 10 = 4 (L) · 5% of 260 = 13 (A) · 50% of 18 = 9 (N)

Clue 3 (Exponents): "A LOUD WHISTLE MADE THE THIEF COVER EARS"

3^2 = 9 (A) · 9^2 = 81 (S) · 12^2 = 144 (V) · 3^3 = 27 (O) · 7^3 = 343 (W) · 5^3 = 125 (M) · 2^3 = 8 (U) · 3^5 = 243 (R) · 6^2 = 36 (T) · 6^3 = 216 (I) · 17^2 = 289 (D) · 14^2 = 196 (F) · 18^2 = 324 (E) · 10^2 = 100 (C) · 2^5 = 32 (L) · 7^2 = 49 (H)

Clue 4 (Order of operations): "A BRAIDED HAIR WAS DROPPED NEAR THE HOOP"

4 × 5 - 6 = 14 (A) · 16 + 7 × 2 = 30 (W) · 13 + 2 × 7 = 27 (I) · 8 × 7 - 7 = 49 (S) · 10 × 6 - 18 = 42 (P) · 6 + 9 × 2 = 24 (T) · 8 × 8 - 7 = 57 (N) · 7 × 7 - 14 = 35 (E) · 6 × 4 - 4 = 20 (H) · 9 × 7 - 25 = 38 (O) · 43 + 2 × 4 = 51 (B) · 34 + 2 × 7 = 48 (R) · 37 + 6 × 4 = 61 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 6 → Skyler Paige

28 ÷ 7 = 4 · 48 ÷ 4 = 12 · 20 ÷ 2 = 10 · 6 ÷ 6 = 1 · 27 ÷ 3 = 9 · 33 ÷ 11 = 3 · 35 ÷ 7 = 5 · 18 ÷ 9 = 2 · 70 ÷ 10 = 7 · 44 ÷ 4 = 11 · 96 ÷ 12 = 8