The Great All-Star Trophy Swap

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

Detective: _____ **Date:** _____

Right before the big championship game, someone sneaked into the trophy room and replaced the shiny gold trophy with a giant inflatable basketball! Use the clues around the arena to find the sneaky culprit 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 Swapper is _____

Possible suspects

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

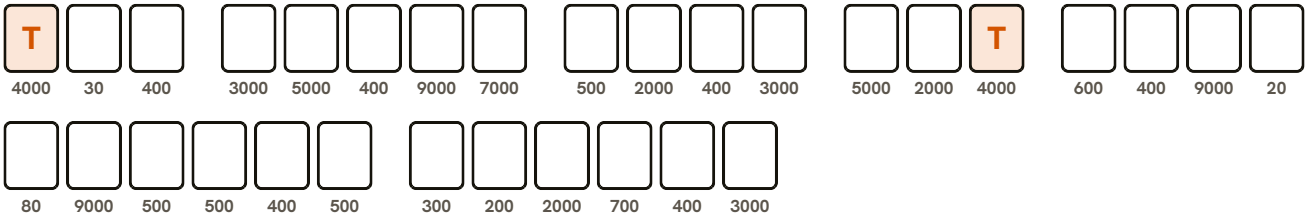
NAME	SIGNATURE MOVE	LUCKY GEAR	WRISTBAND SIDE	HEADBAND COLOR	FAVORITE SNACK
Brady Pocket	Hail Mary Pass	Striped Socks	Left Wristband	Green Headband	Granola Bar
Travis Catch	Fast Break	Gold Whistle	Right Wristband	Red Headband	Energy Drink
Mahomes Jet	Hail Mary Pass	Striped Socks	Left Wristband	Green Headband	Orange Slices
Saquon Jump	Slam Dunk	Finger Tape	Left Wristband	Blue Headband	Orange Slices
LeBron Slam	Spin Move	Striped Socks	Left Wristband	Red Headband	Granola Bar
Jimmy Hustle	Slam Dunk	Gold Whistle	Left Wristband	Red Headband	Orange Slices
Shaq Power	Hail Mary Pass	Finger Tape	Left Wristband	Red Headband	Orange Slices
Kobe Glide	Field Goal Kick	Padded Gloves	Left Wristband	Red Headband	Orange Slices
Lamar Rush	Slam Dunk	Gold Whistle	Left Wristband	Red Headband	Energy Drink
Aja Center	Hail Mary Pass	High Top Sneakers	Left Wristband	Red Headband	Orange Slices
Candace Dash	Spin Move	Finger Tape	Left Wristband	Blue Headband	Granola Bar
Caitlin Long	Hail Mary Pass	Finger Tape	Right Wristband	Green Headband	Energy Drink
Kelce Block	Field Goal Kick	Finger Tape	Right Wristband	Red Headband	Orange Slices
Steph Swish	Slam Dunk	Finger Tape	Right Wristband	Green Headband	Granola Bar
Tyreek Speed	Hail Mary Pass	High Top Sneakers	Left Wristband	Green Headband	Energy Drink
Deion Corner	Field Goal Kick	Striped Socks	Left Wristband	Red Headband	Orange Slices
Sabrina Dagger	Field Goal Kick	High Top Sneakers	Right Wristband	Red Headband	Orange Slices
Luka Magic	Fast Break	Padded Gloves	Left Wristband	Blue Headband	Granola Bar
Patrick Pass	Spin Move	Padded Gloves	Left Wristband	Blue Headband	Granola Bar
Derrick Rose	Hail Mary Pass	Finger Tape	Right Wristband	Blue Headband	Granola Bar
Giannis Rim	Spin Move	Finger Tape	Right Wristband	Blue Headband	Granola Bar

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CLUE 1 Rounding

The arena security clock only shows rounded time. Estimate the time to read the first note!

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



Round 3,713 to the nearest thousand ☐ → T

Round 657 to the nearest hundred ☐ → V

Round 78 to the nearest ten ☐ → P

Round 2,366 to the nearest thousand ☐ → O

Round 448 to the nearest hundred ☐ → E

Round 9,042 to the nearest thousand ☐ → A

Round 22 to the nearest ten ☐ → R

Round 29 to the nearest ten ☐ → H

Round 5,452 to the nearest thousand ☐ → N

Round 505 to the nearest hundred ☐ → D

Round 599 to the nearest hundred ☐ → W

Round 221 to the nearest hundred ☐ → L

Round 260 to the nearest hundred ☐ → G

Round 3,340 to the nearest thousand ☐ → S

Round 7,358 to the nearest thousand ☐ → K

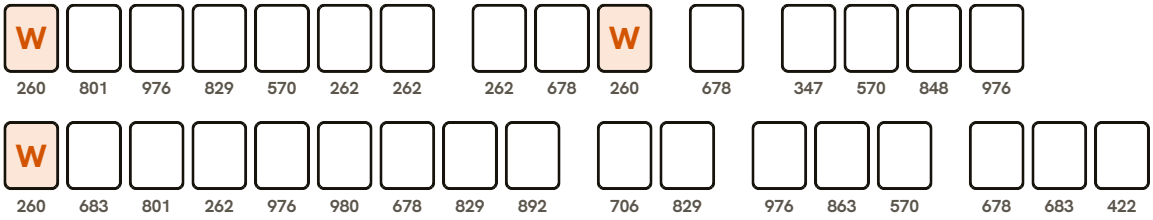
Scratch space:

CLUE 2

Addition

Add up the total points on the locker room whiteboard to unlock the gear crate.

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



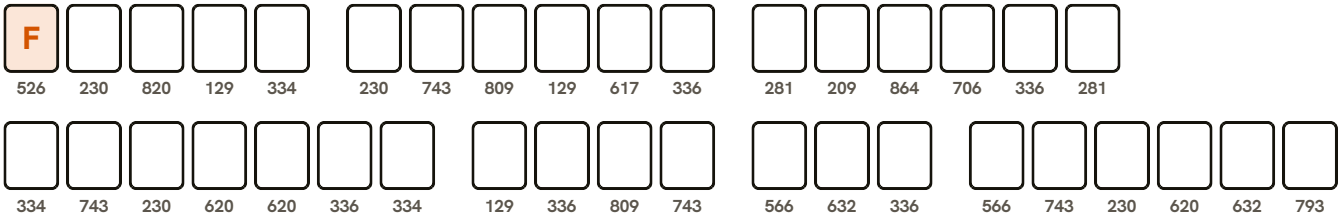
164 + 96 = ☐ → W	321 + 480 = ☐ → I	527 + 321 = ☐ → F
314 + 578 = ☐ → D	171 + 91 = ☐ → S	137 + 285 = ☐ → M
608 + 368 = ☐ → T	365 + 205 = ☐ → E	472 + 391 = ☐ → H
335 + 371 = ☐ → O	204 + 479 = ☐ → R	172 + 175 = ☐ → L
418 + 562 = ☐ → B	337 + 492 = ☐ → N	432 + 246 = ☐ → A

Scratch space:

CLUE 3 Subtraction

Subtract the missing jerseys from the team laundry pile to find a clue.

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



853 - 327 = ☐ → F

680 - 63 = ☐ → G

875 - 82 = ☐ → Y

1075 - 369 = ☐ → C

276 - 67 = ☐ → L

582 - 301 = ☐ → S

787 - 221 = ☐ → T

1220 - 400 = ☐ → U

658 - 26 = ☐ → H

727 - 393 = ☐ → D

985 - 242 = ☐ → R

624 - 4 = ☐ → P

347 - 117 = ☐ → O

1039 - 175 = ☐ → I

810 - 1 = ☐ → A

504 - 375 = ☐ → N

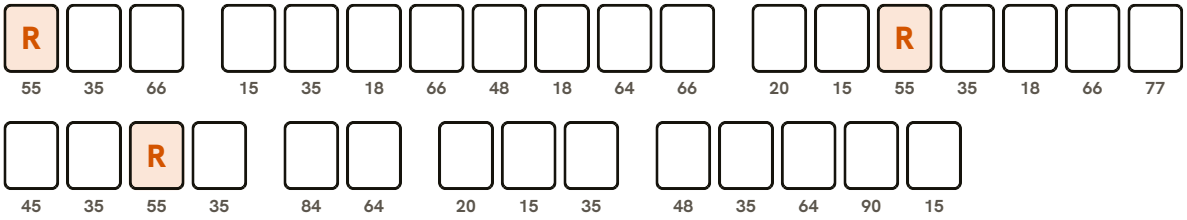
532 - 196 = ☐ → E

Scratch space:

CLUE 4 Multiplication facts (1-12)

Count the stadium seats in equal rows to figure out the lock code.

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



11 × 5 = ☐ → R

11 × 6 = ☐ → D

10 × 9 = ☐ → C

4 × 5 = ☐ → T

7 × 11 = ☐ → S

4 × 12 = ☐ → B

5 × 3 = ☐ → H

5 × 9 = ☐ → W

12 × 7 = ☐ → O

9 × 2 = ☐ → A

7 × 5 = ☐ → E

8 × 8 = ☐ → N

Scratch space:

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

> Share the water bottles evenly among the starting lineup to reveal 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:

15 ÷ 3 = ☐	12 ÷ 3 = ☐	3 ÷ 1 = ☐	49 ÷ 7 = ☐	144 ÷ 12 = ☐
6 ÷ 1 = ☐	56 ÷ 7 = ☐	10 ÷ 10 = ☐	4 ÷ 2 = ☐	77 ÷ 7 = ☐
20 ÷ 2 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain dribbled through security, then adjusted their striped socks.
2. The villain dribbled through security, then wrapped up finger tape.
3. The villain leaped over the benches, then laced up their high tops.
4. The villain tackled the locker door, then adjusted their striped socks.
5. The villain leaped over the benches, then wrapped up finger tape.
6. The villain leaped over the benches, then pulled off padded gloves.
7. The villain passed past the guards, then wrapped up finger tape.
8. The villain leaped over the benches, then blew a gold whistle.
9. The villain dribbled through security, then blew a gold whistle.
10. The villain passed past the guards, then pulled off padded gloves.
11. The villain sprinted past the court, then pulled off padded gloves.
12. The villain sprinted past the court, then adjusted their striped socks.

TEACHER / PARENT

Answer Key

The Great All-Star Trophy Swap

Culprit: Jimmy Hustle

Slam Dunk · Gold Whistle · Left Wristband · Red Headband · Orange Slices

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SNEAK DOES NOT WEAR PADDED GLOVES"

Round 3,713 to the nearest thousand = 4000 (T) · Round 657 to the nearest hundred = 700 (V) · Round 78 to the nearest ten = 80 (P) · Round 2,366 to the nearest thousand = 2000 (O) · Round 448 to the nearest hundred = 400 (E) · Round 9,042 to the nearest thousand = 9000 (A) · Round 22 to the nearest ten = 20 (R) · Round 29 to the nearest ten = 30 (H) · Round 5,452 to the nearest thousand = 5000 (N) · Round 505 to the nearest hundred = 500 (D) · Round 599 to the nearest hundred = 600 (W) · Round 221 to the nearest hundred = 200 (L) · Round 260 to the nearest hundred = 300 (G) · Round 3,340 to the nearest thousand = 3000 (S) · Round 7,358 to the nearest thousand = 7000 (K)

Clue 2 (Addition): "WITNESS SAW A LEFT WRISTBAND ON THE ARM"

164 + 96 = 260 (W) · 321 + 480 = 801 (I) · 527 + 321 = 848 (F) · 314 + 578 = 892 (D) · 171 + 91 = 262 (S) · 137 + 285 = 422 (M) · 608 + 368 = 976 (T) · 365 + 205 = 570 (E) · 472 + 391 = 863 (H) · 335 + 371 = 706 (O) · 204 + 479 = 683 (R) · 172 + 175 = 347 (L) · 418 + 562 = 980 (B) · 337 + 492 = 829 (N) · 432 + 246 = 678 (A)

Clue 3 (Subtraction): "FOUND ORANGE SLICES DROPPED NEAR THE TROPHY"

853 - 327 = 526 (F) · 680 - 63 = 617 (G) · 875 - 82 = 793 (Y) · 1075 - 369 = 706 (C) · 276 - 67 = 209 (L) · 582 - 301 = 281 (S) · 787 - 221 = 566 (T) · 1220 - 400 = 820 (U) · 658 - 26 = 632 (H) · 727 - 393 = 334 (D) · 985 - 242 = 743 (R) · 624 - 4 = 620 (P) · 347 - 117 = 230 (O) · 1039 - 175 = 864 (I) · 810 - 1 = 809 (A) · 504 - 375 = 129 (N) · 532 - 196 = 336 (E)

Clue 4 (Multiplication facts (1-12)): "RED HEADBAND THREADS WERE ON THE BENCH"

11 × 5 = 55 (R) · 11 × 6 = 66 (D) · 10 × 9 = 90 (C) · 4 × 5 = 20 (T) · 7 × 11 = 77 (S) · 4 × 12 = 48 (B) · 5 × 3 = 15 (H) · 5 × 9 = 45 (W) · 12 × 7 = 84 (O) · 9 × 2 = 18 (A) · 7 × 5 = 35 (E) · 8 × 8 = 64 (N)

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

15 ÷ 3 = 5 · 12 ÷ 3 = 4 · 3 ÷ 1 = 3 · 49 ÷ 7 = 7 · 144 ÷ 12 = 12 · 6 ÷ 1 = 6 · 56 ÷ 7 = 8 · 10 ÷ 10 = 1 · 4 ÷ 2 = 2 · 77 ÷ 7 = 11 · 20 ÷ 2 = 10