



The Mystery of the Missing Anemometer

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

Detective: _____ **Date:** _____

A massive supercell storm is approaching Tornado Alley, but someone stole the Master Anemometer from the Sky Lab! Help the Tornado Tracker Squad solve the math clues and unmask the culprit before the storm hits.

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 Storm Saboteur is _____

Possible suspects

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

NAME	VEHICLE	STORM TOOL	STEERING HAND	HEADGEAR	COUNTERMEASURE
Pecos Hank	Dominator Van	Wind Cannon	Left Handed	Red Cap	Loud Siren
Tim Samaras	Sky Chaser Jet	Hail Shield	Left Handed	Yellow Hood	Bright Flare
Josh Wurman	Sky Chaser Jet	Lightning Rod	Right Handed	Red Cap	Heavy Anchor
Jim Cantore	Dominator Van	Tornado Pod	Left Handed	Red Cap	Bright Flare
Al Roker	Radar Buggy	Lightning Rod	Left Handed	Red Cap	Bright Flare
Amy Freeze	Radar Buggy	Wind Cannon	Left Handed	Red Cap	Bright Flare
Mike Bettes	Dominator Van	Lightning Rod	Right Handed	Yellow Hood	Heavy Anchor
Sam Champion	Radar Buggy	Tornado Pod	Left Handed	Red Cap	Bright Flare
Skip Talbot	Dominator Van	Wind Cannon	Right Handed	Silver Helmet	Bright Flare
Ted Fujita	Dominator Van	Tornado Pod	Left Handed	Red Cap	Loud Siren
Ginger Zee	Radar Buggy	Hail Shield	Right Handed	Red Cap	Bright Flare
Maria LaRosa	Hover Drone	Thermal Scanner	Left Handed	Silver Helmet	Loud Siren
David Fowler	Hover Drone	Tornado Pod	Left Handed	Silver Helmet	Loud Siren
Nick Wiltgen	Hover Drone	Tornado Pod	Right Handed	Yellow Hood	Loud Siren
Stephanie Abrams	Sky Chaser Jet	Thermal Scanner	Left Handed	Silver Helmet	Heavy Anchor
Chris Forbes	Dominator Van	Lightning Rod	Left Handed	Red Cap	Loud Siren
Laura Velasquez	Dominator Van	Hail Shield	Right Handed	Red Cap	Bright Flare
Karen Wynne	Dominator Van	Thermal Scanner	Left Handed	Yellow Hood	Heavy Anchor
Jen Carfagno	Sky Chaser Jet	Tornado Pod	Left Handed	Red Cap	Loud Siren
Alex Wallace	Radar Buggy	Tornado Pod	Right Handed	Silver Helmet	Heavy Anchor
Kelly Cass	Dominator Van	Wind Cannon	Left Handed	Red Cap	Bright Flare

CLUE 1 Addition

We tallied all the storm probes gathered in the garage to unlock the first encrypted note.

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

T								T									T
627	724	369	843	476	368	253	627	369	345	598	655	534	655	659	253	627	

							T									
345	843	369	476	217	534	953	724	627	659	534	659	953	598	253	655	

$367 + 260 = \square \rightarrow \text{[T]}$

$276 + 448 = \square \rightarrow \text{[H]}$

$93 + 160 = \square \rightarrow \text{[O]}$

$197 + 171 = \square \rightarrow \text{[B]}$

$310 + 224 = \square \rightarrow \text{[I]}$

$524 + 429 = \square \rightarrow \text{[G]}$

$116 + 101 = \square \rightarrow \text{[L]}$

$191 + 178 = \square \rightarrow \text{[E]}$

$325 + 151 = \square \rightarrow \text{[A]}$

$184 + 161 = \square \rightarrow \text{[U]}$

$548 + 295 = \square \rightarrow \text{[S]}$

$218 + 437 = \square \rightarrow \text{[D]}$

$387 + 211 = \square \rightarrow \text{[R]}$

$274 + 385 = \square \rightarrow \text{[N]}$

Scratch space:

CLUE 2 Rounding

The storm radar screen rounds all wind speeds to the nearest ten to display quick readings.

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

T									T						T				
400	3000	6000	800	50	800	70	6000	200	400	50	800	6000	30	400	3000	6000	8000	90	

			T					T			T				
7000	6000	600	400	3000	40	4000	30	400	2000	800	400	6000	6000	90	

Round 435 to the nearest hundred → **T**

Round 2,496 to the nearest thousand → **O**

Round 6,142 to the nearest thousand → **E**

Round 7,462 to the nearest thousand → **L**

Round 577 to the nearest hundred → **F**

Round 217 to the nearest hundred → **C**

Round 28 to the nearest ten → **D**

Round 2,584 to the nearest thousand → **H**

Round 755 to the nearest hundred → **S**

Round 7,830 to the nearest thousand → **I**

Round 46 to the nearest ten → **U**

Round 91 to the nearest ten → **R**

Round 44 to the nearest ten → **A**

Round 68 to the nearest ten → **P**

Round 4,258 to the nearest thousand → **N**

Scratch space:

CLUE 3

Subtraction

We subtracted the fuel spent from the total tank to figure out how far the escape vehicle went.

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

A									A								
760	734	750	299	642	805	131	557	489	760	750	331	734	489	299	536	735	331

					A			
131	805	331	841	805	760	235	331	750

$1087 - 327 = \square \rightarrow \text{A}$

$654 - 12 = \square \rightarrow \text{G}$

$449 - 318 = \square \rightarrow \text{T}$

$1202 - 397 = \square \rightarrow \text{H}$

$535 - 46 = \square \rightarrow \text{L}$

$898 - 341 = \square \rightarrow \text{F}$

$651 - 352 = \square \rightarrow \text{I}$

$473 - 142 = \square \rightarrow \text{E}$

$706 - 170 = \square \rightarrow \text{N}$

$866 - 116 = \square \rightarrow \text{R}$

$477 - 242 = \square \rightarrow \text{S}$

$1055 - 321 = \square \rightarrow \text{B}$

$970 - 129 = \square \rightarrow \text{C}$

$1018 - 283 = \square \rightarrow \text{D}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The weather probes were packed in neat equal rows inside the back of the chase truck.

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

A					A			A							
35	21	16	96	88	35	63	14	35	30	20	60	22	3	96	64

80	120	16	14	64	3	96

$5 \times 7 = \square \rightarrow \text{A}$

$4 \times 4 = \square \rightarrow \text{E}$

$12 \times 10 = \square \rightarrow \text{H}$

$8 \times 12 = \square \rightarrow \text{D}$

$3 \times 1 = \square \rightarrow \text{N}$

$4 \times 5 = \square \rightarrow \text{F}$

$7 \times 3 = \square \rightarrow \text{R}$

$5 \times 12 = \square \rightarrow \text{O}$

$11 \times 2 = \square \rightarrow \text{U}$

$2 \times 7 = \square \rightarrow \text{W}$

$9 \times 7 = \square \rightarrow \text{P}$

$8 \times 8 = \square \rightarrow \text{I}$

$3 \times 10 = \square \rightarrow \text{S}$

$8 \times 11 = \square \rightarrow \text{C}$

$8 \times 10 = \square \rightarrow \text{T}$

Scratch space:

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

We split the remaining walkie talkies equally among the search teams looking for clues.

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:

$30 \div 3 = \boxed{}$

$30 \div 10 = \boxed{}$

$30 \div 5 = \boxed{}$

$11 \div 1 = \boxed{}$

$42 \div 6 = \boxed{}$

$44 \div 11 = \boxed{}$

$16 \div 2 = \boxed{}$

$96 \div 8 = \boxed{}$

$63 \div 7 = \boxed{}$

$24 \div 12 = \boxed{}$

$55 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain drove the dominator van, then dropped a tornado pod.
2. The villain revved the radar buggy, then raised a hail shield.
3. The villain revved the radar buggy, then dropped a tornado pod.
4. The villain revved the radar buggy, then swept a thermal scanner.
5. The villain drove the dominator van, then plugged in a lightning rod.
6. The villain revved the radar buggy, then fired a wind cannon.
7. The villain piloted the sky chaser jet, then swept a thermal scanner.
8. The villain steered the scout truck, then swept a thermal scanner.
9. The villain flew the hover drone, then raised a hail shield.
10. The villain drove the dominator van, then fired a wind cannon.
11. The villain flew the hover drone, then plugged in a lightning rod.
12. The villain piloted the sky chaser jet, then plugged in a lightning rod.

Answer Key

The Mystery of the Missing Anemometer

Culprit: Jim Cantore

Dominator Van · Tornado Pod · Left Handed · Red Cap · Bright Flare

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SABOTEUR DID NOT USE A LIGHTNING ROD"

$367 + 260 = 627$ (T) · $276 + 448 = 724$ (H) · $93 + 160 = 253$ (O) · $197 + 171 = 368$ (B) · $310 + 224 = 534$ (I) · $524 + 429 = 953$ (G) · $116 + 101 = 217$ (L) · $191 + 178 = 369$ (E) · $325 + 151 = 476$ (A) · $184 + 161 = 345$ (U) · $548 + 295 = 843$ (S) · $218 + 437 = 655$ (D) · $387 + 211 = 598$ (R) · $274 + 385 = 659$ (N)

Clue 2 (Rounding): "THE SUSPECT USED THEIR LEFT HAND TO STEER"

Round 435 to the nearest hundred = 400 (T) · Round 2,496 to the nearest thousand = 2000 (O) · Round 6,142 to the nearest thousand = 6000 (E) · Round 7,462 to the nearest thousand = 7000 (L) · Round 577 to the nearest hundred = 600 (F) · Round 217 to the nearest hundred = 200 (C) · Round 28 to the nearest ten = 30 (D) · Round 2,584 to the nearest thousand = 3000 (H) · Round 755 to the nearest hundred = 800 (S) · Round 7,830 to the nearest thousand = 8000 (I) · Round 46 to the nearest ten = 50 (U) · Round 91 to the nearest ten = 90 (R) · Round 44 to the nearest ten = 40 (A) · Round 68 to the nearest ten = 70 (P) · Round 4,258 to the nearest thousand = 4000 (N)

Clue 3 (Subtraction): "A BRIGHT FLARE BLINDED THE CHASER"

$1087 - 327 = 760$ (A) · $654 - 12 = 642$ (G) · $449 - 318 = 131$ (T) · $1202 - 397 = 805$ (H) · $535 - 46 = 489$ (L) · $898 - 341 = 557$ (F) · $651 - 352 = 299$ (I) · $473 - 142 = 331$ (E) · $706 - 170 = 536$ (N) · $866 - 116 = 750$ (R) · $477 - 242 = 235$ (S) · $1055 - 321 = 734$ (B) · $970 - 129 = 841$ (C) · $1018 - 283 = 735$ (D)

Clue 4 (Multiplication facts (1-12)): "A RED CAP WAS FOUND IN THE WIND"

$5 \times 7 = 35$ (A) · $4 \times 4 = 16$ (E) · $12 \times 10 = 120$ (H) · $8 \times 12 = 96$ (D) · $3 \times 1 = 3$ (N) · $4 \times 5 = 20$ (F) · $7 \times 3 = 21$ (R) · $5 \times 12 = 60$ (O) · $11 \times 2 = 22$ (U) · $2 \times 7 = 14$ (W) · $9 \times 7 = 63$ (P) · $8 \times 8 = 64$ (I) · $3 \times 10 = 30$ (S) · $8 \times 11 = 88$ (C) · $8 \times 10 = 80$ (T)

Clue 5 (Division facts (1-12)): surviving statement is box 1 → Jim Cantore

$30 \div 3 = 10$ · $30 \div 10 = 3$ · $30 \div 5 = 6$ · $11 \div 1 = 11$ · $42 \div 6 = 7$ · $44 \div 11 = 4$ · $16 \div 2 = 8$ · $96 \div 8 = 12$ · $63 \div 7 = 9$ · $24 \div 12 = 2$ · $55 \div 11 = 5$