



The Canopy Canopy Caper

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

Detective: _____ Date: _____

The sacred Sun Amber has been snatched from the high canopy research station! The Chief Botanist needs the Treehouse Patrol to track down the rogue glider who flew off into the misty branches.

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 rogue glider is _____

Possible suspects

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

NAME	GLIDING STYLE	INVENTION TOOL	FLIGHT CONTROL HAND	HELMET PLUME COLOR	DISTRACTION DANGER
Maya Meadow	turbo boosters	flash powder	right-handed pilot	neon green feather	glowing fireflies
Zane Zenith	turbo boosters	flash powder	right-handed pilot	sky blue tassel	sweet mango juice
Gabe Glider	turbo boosters	flash powder	right-handed pilot	bright orange yarn	glowing fireflies
Sasha Seed	leaf camouflage	vessel tracker	left-handed pilot	bright orange yarn	loud monkey chats
Zoe Zip	leaf camouflage	flash powder	left-handed pilot	neon green feather	loud monkey chats
Lily Lake	grappling hooks	vessel tracker	right-handed pilot	bright orange yarn	glowing fireflies
Ruby River	turbo boosters	bubble blaster	left-handed pilot	neon green feather	glowing fireflies
Penny Pine	stealth wings	vessel tracker	right-handed pilot	sky blue tassel	glowing fireflies
Luke Log	turbo boosters	net launcher	left-handed pilot	neon green feather	glowing fireflies
Toby Twig	leaf camouflage	flash powder	left-handed pilot	neon green feather	glowing fireflies
Mia Mist	silent propellers	grape shooter	right-handed pilot	bright orange yarn	sweet mango juice
Leo Leaf	stealth wings	vessel tracker	right-handed pilot	bright orange yarn	glowing fireflies
Clara Canopy	leaf camouflage	bubble blaster	right-handed pilot	bright orange yarn	loud monkey chats
Nico Nut	leaf camouflage	net launcher	right-handed pilot	bright orange yarn	glowing fireflies
Owen Owl	silent propellers	net launcher	right-handed pilot	bright orange yarn	sweet mango juice
Hugo Hill	grappling hooks	flash powder	right-handed pilot	neon green feather	loud monkey chats
Sammy Sky	silent propellers	flash powder	right-handed pilot	bright orange yarn	sweet mango juice
Max Maple	grappling hooks	grape shooter	right-handed pilot	bright orange yarn	glowing fireflies
Benny Bark	silent propellers	vessel tracker	right-handed pilot	sky blue tassel	sweet mango juice
Gavin Grove	leaf camouflage	bubble blaster	right-handed pilot	sky blue tassel	sweet mango juice
Otis Oak	turbo boosters	bubble blaster	left-handed pilot	bright orange yarn	glowing fireflies

CLUE 1

We found a discarded inventory list from the getaway glider. Let us add up the counts of ropes and pulleys to see how much gear they brought!

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

$$648 + 291 = \boxed{} \rightarrow \boxed{\text{T}}$$

$132 + 132 = \boxed{} \rightarrow \boxed{\text{W}}$

$$216 + 462 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$$334 + 271 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$464 + 341 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$229 + 161 = \boxed{} \rightarrow \boxed{\text{L}}$$

$211 + 479 = \boxed{} \rightarrow \boxed{\text{N}}$

$$202 + 165 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$120 + 202 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$239 + 373 = \boxed{} \rightarrow \boxed{0}$$

$$302 + 434 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$354 + 162 = \boxed{} \rightarrow \boxed{\text{F}}$$

$340 + 302 = \boxed{} \rightarrow \boxed{\text{H}}$

$212 + 173 = \boxed{} \rightarrow \boxed{}$

$$221 + 285 = \boxed{} \rightarrow \boxed{\text{U}}$$

$393 + 237 = \boxed{} \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 2

The canopy radar picked up a fast-flying shadow, but the old screen only displays rounded numbers. Round the distance to find the flyer's path.

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

40 6000 30 2000 500 600 40 20 500 700 700 30 20 60 70 50 500 600 700 80

90 50 30 5000 9000 80 70 20 800 4000 6000 40 80

Round 41 to the nearest ten $\rightarrow$ **T**

Round 584 to the nearest hundred $\rightarrow$ **N**

Round 4,620 to the nearest thousand → **D**

Round 5,712 to the nearest thousand $\rightarrow$ **H**

Round 2,006 to the nearest thousand $\rightarrow$ **C**

Round 3,607 to the nearest thousand → **G**

Round 487 to the nearest hundred $\rightarrow$

Round 58 to the nearest ten $\rightarrow$ **W**

Round 78 to the nearest ten →

Round 88 to the nearest ten →

Round 26 to the nearest ten → **E**

Round 8,931 to the nearest thousand → **B**

Round 54 to the nearest ten → **S**

Round 769 to the nearest hundred $\rightarrow$

Round 17 to the nearest ten → **R**

Round 677 to the nearest hundred $\rightarrow$ **L**

Round 69 to the nearest ten → **A**

Scratch space:

CLUE 3 Subtraction

A crate of supply snacks was torn open by the suspect. Subtract the eaten fruit from the total to find out how many bananas remain!

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

T																	
274	893	749	409	682	537	749	288	407	201	830	483	682	188	133	376	749	376

483	537	245	682	351	407	188	133	245	483	241	245	830

452 - 178 = → T	500 - 93 = → W	520 - 144 = → D
993 - 100 = → H	591 - 240 = → O	303 - 15 = → R
424 - 183 = → U	1098 - 268 = → S	472 - 227 = → G
873 - 191 = → L	723 - 240 = → B	402 - 214 = → I
445 - 312 = → N	509 - 308 = → A	636 - 99 = → Y
496 - 87 = → F	956 - 207 = → E	

Scratch space:

CLUE 4

Multiplication facts (1-12)

We discovered several matching equipment crates lined up in equal rows. Multiply the rows by the crates to count the smuggler's stash.

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

W																		
70	1	28	25	42	15	44	30	3	11	20	64	88	25	3	21	15	20	1
66	21	3	15	21	88	88	64	1	99	2	1	15	1					

$7 \times 10 = \square \rightarrow \boxed{W}$

$1 \times 2 = \square \rightarrow \boxed{C}$

$11 \times 9 = \square \rightarrow \boxed{S}$

$11 \times 8 = \square \rightarrow \boxed{T}$

$1 \times 1 = \square \rightarrow \boxed{E}$

$11 \times 6 = \square \rightarrow \boxed{Y}$

$11 \times 4 = \square \rightarrow \boxed{D}$

$10 \times 3 = \square \rightarrow \boxed{B}$

$1 \times 3 = \square \rightarrow \boxed{R}$

$3 \times 5 = \square \rightarrow \boxed{N}$

$3 \times 7 = \square \rightarrow \boxed{A}$

$4 \times 7 = \square \rightarrow \boxed{F}$

$1 \times 11 = \square \rightarrow \boxed{I}$

$2 \times 10 = \square \rightarrow \boxed{G}$

$8 \times 8 = \square \rightarrow \boxed{H}$

$5 \times 5 = \square \rightarrow \boxed{O}$

$7 \times 6 = \square \rightarrow \boxed{U}$

Scratch space:

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

The canopy guards want to split up the recovery team into equal search parties. Divide the volunteers to assign them to different trees.

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:

$72 \div 9 = \boxed{}$

$50 \div 10 = \boxed{}$

$49 \div 7 = \boxed{}$

$108 \div 9 = \boxed{}$

$5 \div 5 = \boxed{}$

$10 \div 1 = \boxed{}$

$8 \div 2 = \boxed{}$

$44 \div 4 = \boxed{}$

$12 \div 4 = \boxed{}$

$90 \div 10 = \boxed{}$

$18 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain glides under the rope bridges, then scares a flock of parrots.
2. The villain swoops around the giant trunk, then drops a map of the secret tree.
3. The villain swoops around the giant trunk, then leaves a trail of sparkly mist.
4. The villain zooms through the leafy canopy, then leaves a trail of sparkly mist.
5. The villain zooms through the leafy canopy, then scares a flock of parrots.
6. The villain swoops around the giant trunk, then scares a flock of parrots.
7. The villain dives past the sleeping sloths, then drops a map of the secret tree.
8. The villain swoops around the giant trunk, then rattles the high wooden ladders.
9. The villain swoops around the giant trunk, then makes a loud whistle in the wind.
10. The villain zooms through the leafy canopy, then drops a map of the secret tree.
11. The villain zooms through the leafy canopy, then makes a loud whistle in the wind.
12. The villain dives past the sleeping sloths, then makes a loud whistle in the wind.

Answer Key

The Canopy Canopy Caper

Culprit: Lily Lake

grappling hooks · vessel tracker · right-handed pilot · bright orange yarn · glowing fireflies

Trail: Start 21 → Clue 1 14 → Clue 2 10 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE FLASH POWDER"

$648 + 291 = 939$ (T) · $132 + 132 = 264$ (W) · $216 + 462 = 678$ (V) · $334 + 271 = 605$ (A) · $464 + 341 = 805$ (S) · $229 + 161 = 390$ (L) · $211 + 479 = 690$ (N) · $202 + 165 = 367$ (P) · $120 + 202 = 322$ (E) · $239 + 373 = 612$ (O) · $302 + 434 = 736$ (R) · $354 + 162 = 516$ (F) · $340 + 302 = 642$ (H) · $212 + 173 = 385$ (I) · $221 + 285 = 506$ (U) · $393 + 237 = 630$ (D)

Clue 2 (Rounding): "THE CONTROLLER WAS ONLY USED BY A RIGHTY"

Round 41 to the nearest ten = 40 (T) · Round 584 to the nearest hundred = 600 (N) · Round 4,620 to the nearest thousand = 5000 (D) · Round 5,712 to the nearest thousand = 6000 (H) · Round 2,006 to the nearest thousand = 2000 (C) · Round 3,607 to the nearest thousand = 4000 (G) · Round 487 to the nearest hundred = 500 (O) · Round 58 to the nearest ten = 60 (W) · Round 78 to the nearest ten = 80 (Y) · Round 88 to the nearest ten = 90 (U) · Round 26 to the nearest ten = 30 (E) · Round 8,931 to the nearest thousand = 9000 (B) · Round 54 to the nearest ten = 50 (S) · Round 769 to the nearest hundred = 800 (I) · Round 17 to the nearest ten = 20 (R) · Round 677 to the nearest hundred = 700 (L) · Round 69 to the nearest ten = 70 (A)

Clue 3 (Subtraction): "THE FLYER WAS BLINDED BY GLOWING BUGS"

$452 - 178 = 274$ (T) · $500 - 93 = 407$ (W) · $520 - 144 = 376$ (D) · $993 - 100 = 893$ (H) · $591 - 240 = 351$ (O) · $303 - 15 = 288$ (R) · $424 - 183 = 241$ (U) · $1098 - 268 = 830$ (S) · $472 - 227 = 245$ (G) · $873 - 191 = 682$ (L) · $723 - 240 = 483$ (B) · $402 - 214 = 188$ (I) · $445 - 312 = 133$ (N) · $509 - 308 = 201$ (A) · $636 - 99 = 537$ (Y) · $496 - 87 = 409$ (F) · $956 - 207 = 749$ (E)

Clue 4 (Multiplication facts (1-12)): "WE FOUND BRIGHT ORANGE YARN AT THE SCENE"

$7 \times 10 = 70$ (W) · $1 \times 2 = 2$ (C) · $11 \times 9 = 99$ (S) · $11 \times 8 = 88$ (T) · $1 \times 1 = 1$ (E) · $11 \times 6 = 66$ (Y) · $11 \times 4 = 44$ (D) · $10 \times 3 = 30$ (B) · $1 \times 3 = 3$ (R) · $3 \times 5 = 15$ (N) · $3 \times 7 = 21$ (A) · $4 \times 7 = 28$ (F) · $1 \times 11 = 11$ (I) · $2 \times 10 = 20$ (G) · $8 \times 8 = 64$ (H) · $5 \times 5 = 25$ (O) · $7 \times 6 = 42$ (U)

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

$72 \div 9 = 8$ · $50 \div 10 = 5$ · $49 \div 7 = 7$ · $108 \div 9 = 12$ · $5 \div 5 = 1$ · $10 \div 1 = 10$ · $8 \div 2 = 4$ · $44 \div 4 = 11$ · $12 \div 4 = 3$ · $90 \div 10 = 9$ · $18 \div 9 = 2$