



The Canopy Camp Caper

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

Detective: _____ Date: _____

The Golden Carabiner has vanished from the main cabin! Without it, nobody can ride the Mega-Zipline at the campfire tonight. Camp Director Ben needs our help to track down the culprit before the sun goes down!

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 Maple Mugger is _____

Possible suspects

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

NAME	CAMP SKILL	ADVENTURE GEAR	DOMINANT HAND	HAIR COLOR	NATURE FEAR
Wyatt	Kayaking	Grappling hook	Left-handed	Brown hair	Afraid of frogs
Jack	Kayaking	Night-vision goggles	Right-handed	Black hair	Afraid of frogs
Toby	Fire-building	Grappling hook	Right-handed	Black hair	Afraid of mud
Sophia	Fire-building	Pocket whistle	Left-handed	Brown hair	Afraid of mud
Ella	Trail-blazing	Walkie-talkie	Left-handed	Black hair	Afraid of mud
Finn	Tree-climbing	Grappling hook	Right-handed	Black hair	Afraid of spiders
Emma	Kayaking	Walkie-talkie	Left-handed	Black hair	Afraid of spiders
Zoe	Zip-lining	Night-vision goggles	Right-handed	Black hair	Afraid of spiders
Ava	Kayaking	Walkie-talkie	Right-handed	Black hair	Afraid of spiders
Grace	Fire-building	Grappling hook	Left-handed	Black hair	Afraid of spiders
Luke	Fire-building	Pocket whistle	Right-handed	Black hair	Afraid of spiders
Maya	Trail-blazing	Compass watch	Right-handed	Black hair	Afraid of spiders
Harper	Zip-lining	Grappling hook	Left-handed	Blonde hair	Afraid of spiders
Sam	Tree-climbing	Compass watch	Left-handed	Black hair	Afraid of mud
Chloe	Kayaking	Night-vision goggles	Left-handed	Blonde hair	Afraid of mud
Max	Fire-building	Grappling hook	Left-handed	Brown hair	Afraid of spiders
Leo	Fire-building	Walkie-talkie	Right-handed	Blonde hair	Afraid of frogs
Mia	Fire-building	Compass watch	Left-handed	Black hair	Afraid of spiders
Owen	Kayaking	Walkie-talkie	Right-handed	Black hair	Afraid of mud
Noah	Trail-blazing	Compass watch	Right-handed	Blonde hair	Afraid of frogs
Lily	Kayaking	Pocket whistle	Right-handed	Brown hair	Afraid of spiders

CLUE 1 Place value

We found a locked gear box with digit buttons. To find the first clue inside, we must look at the value of the digit in the tens place on the code card.

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

T			T											T					
7000	40	30	7000	40	900	30	800	300	60	30	200	400	60	7000	3000	200	30	9000	
5000	80	9000	500	500	8000	900	400	5000	40	60	60	600							

What is the value of the 7 in 47,233? → **T**

What is the value of the 9 in 976? → **I**

What is the value of the 9 in 29,057? → **A**

What is the value of the 5 in 527? → **P**

What is the value of the 6 in 960? → **O**

What is the value of the 8 in 845? → **F**

What is the value of the 3 in 3,468? → **U**

What is the value of the 3 in 306? → **D**

What is the value of the 5 in 5,130? → **G**

What is the value of the 4 in 6,940? → **H**

What is the value of the 3 in 935? → **E**

What is the value of the 6 in 629? → **K**

What is the value of the 4 in 5,430? → **N**

What is the value of the 2 in 4,206? → **S**

What is the value of the 8 in 1,086? → **R**

What is the value of the 8 in 18,574? → **L**

Scratch space:

CLUE 2 Addition

We gathered all the scattered trail markers left behind. Let us add up the total number of red and yellow flags to unlock the path.

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

A																	
5320	5214	6056	7356	5215	6718	5215	5320	4424	8904	9414	8904	7214	9414	5214	8341	7849	4424

3560	9414	8417	6718	6718	5215	6056	8341	9680	5320	5214	4660	

$3559 + 1761 = \boxed{} \rightarrow \boxed{\text{A}}$	$4102 + 2616 = \boxed{} \rightarrow \boxed{\text{T}}$	$5279 + 2570 = \boxed{} \rightarrow \boxed{\text{O}}$
$2927 + 3129 = \boxed{} \rightarrow \boxed{\text{I}}$	$6629 + 3051 = \boxed{} \rightarrow \boxed{\text{M}}$	$3862 + 3494 = \boxed{} \rightarrow \boxed{\text{G}}$
$3452 + 1763 = \boxed{} \rightarrow \boxed{\text{H}}$	$4291 + 4126 = \boxed{} \rightarrow \boxed{\text{F}}$	$3807 + 3407 = \boxed{} \rightarrow \boxed{\text{P}}$
$1845 + 1715 = \boxed{} \rightarrow \boxed{\text{L}}$	$4138 + 4766 = \boxed{} \rightarrow \boxed{\text{D}}$	$5165 + 4249 = \boxed{} \rightarrow \boxed{\text{E}}$
$4903 + 3438 = \boxed{} \rightarrow \boxed{\text{S}}$	$1916 + 3298 = \boxed{} \rightarrow \boxed{\text{R}}$	$2546 + 2114 = \boxed{} \rightarrow \boxed{\text{K}}$
$2541 + 1883 = \boxed{} \rightarrow \boxed{\text{N}}$		

Scratch space:

CLUE 3

Subtraction

The map chest has a heavy lock. We must subtract the smaller number of canteen ounces from the larger number to crack the lock.

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

T			T														
1124	2472	1282	1124	2472	6577	1282	5954	6581	3420	4801	3420	2842	3420	5930	5954	6581	8619
3420	6385	7743	6577	6959	1282	6581	2842	1282	1490								

$5281 - 4157 = \square \rightarrow \text{[T]}$

$2605 - 1115 = \square \rightarrow \text{[B]}$

$10983 - 4406 = \square \rightarrow \text{[I]}$

$10702 - 2959 = \square \rightarrow \text{[P]}$

$8254 - 2739 = \square \rightarrow \text{[M]}$

$7332 - 1402 = \square \rightarrow \text{[Y]}$

$5087 - 2615 = \square \rightarrow \text{[H]}$

$7602 - 4760 = \square \rightarrow \text{[W]}$

$6580 - 1779 = \square \rightarrow \text{[N]}$

$5830 - 4548 = \square \rightarrow \text{[E]}$

$8061 - 1102 = \square \rightarrow \text{[D]}$

$6123 - 2703 = \square \rightarrow \text{[A]}$

$8066 - 1485 = \square \rightarrow \text{[R]}$

$11723 - 3104 = \square \rightarrow \text{[O]}$

$9206 - 3252 = \square \rightarrow \text{[F]}$

$8093 - 1708 = \square \rightarrow \text{[S]}$

Scratch space:

CLUE 4

The campsite radar screen only shows numbers rounded to the nearest ten. We need to round our distance reading to get the next hint.

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

500 2900 4300 700 1700 7000 1100 2300 7000 500 9000 110

200 500 4300 900 170 500 2900

5000 700 70 200 1100 20 500 30

Round 478 to the nearest hundred $\rightarrow$ **A**

Round 9,174 to the nearest thousand → **C**

Round 22 to the nearest ten → **M**

Round 70 to the nearest ten $\rightarrow$ **T**

Round 889 to the nearest hundred → **R**

Round 4,255 to the nearest hundred →

Round 174 to the nearest ten $\rightarrow$ **W**

Round 201 to the nearest hundred $\rightarrow$ **H**

Round 714 to the nearest hundred → **N**

Round 1,083 to the nearest hundred → **E**

Round 6,727 to the nearest thousand $\rightarrow$ **L**

Round 4,955 to the nearest thousand $\rightarrow$ ☒ 5,000

Round 2,916 to the nearest hundred $\rightarrow$ **S**

Round 2,277 to the nearest hundred $\rightarrow$ **B**

Round 32 to the nearest ten → **P**

Round 111 to the nearest ten $\rightarrow$ **K**

Round 1,742 to the nearest hundred → **G**

Scratch space:

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

We found a box of snack bars to share equally among our team. Dividing them up leaves a remainder that points to 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:

$10 \div 2 = \boxed{}$

$33 \div 3 = \boxed{}$

$32 \div 8 = \boxed{}$

$18 \div 6 = \boxed{}$

$18 \div 2 = \boxed{}$

$6 \div 6 = \boxed{}$

$18 \div 9 = \boxed{}$

$144 \div 12 = \boxed{}$

$90 \div 9 = \boxed{}$

$77 \div 11 = \boxed{}$

$72 \div 9 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain paddles across the lake, then turns on night vision goggles.
2. The villain marks a secret path, then whispers into a walkie talkie.
3. The villain sparks a small campfire, then turns on night vision goggles.
4. The villain paddles across the lake, then whispers into a walkie talkie.
5. The villain sparks a small campfire, then blows a pocket whistle.
6. The villain slides down the rope, then turns on night vision goggles.
7. The villain marks a secret path, then tosses a grappling hook.
8. The villain scrambles up the trunk, then checks a compass watch.
9. The villain scrambles up the trunk, then whispers into a walkie talkie.
10. The villain scrambles up the trunk, then blows a pocket whistle.
11. The villain marks a secret path, then checks a compass watch.
12. The villain slides down the rope, then checks a compass watch.

Answer Key

The Canopy Camp Caper

Culprit: Zoe

Zip-lining · Night-vision goggles · Right-handed · Black hair · Afraid of spiders

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT USE A GRAPPLING HOOK"

What is the value of the 7 in 47,233? = 7000 (T) · What is the value of the 9 in 976? = 900 (I) · What is the value of the 9 in 29,057? = 9000 (A) · What is the value of the 5 in 527? = 500 (P) · What is the value of the 6 in 960? = 60 (O) · What is the value of the 8 in 845? = 800 (F) · What is the value of the 3 in 3,468? = 3000 (U) · What is the value of the 3 in 306? = 300 (D) · What is the value of the 5 in 5,130? = 5000 (G) · What is the value of the 4 in 6,940? = 40 (H) · What is the value of the 3 in 935? = 30 (E) · What is the value of the 6 in 629? = 600 (K) · What is the value of the 4 in 5,430? = 400 (N) · What is the value of the 2 in 4,206? = 200 (S) · What is the value of the 8 in 1,086? = 80 (R) · What is the value of the 8 in 18,574? = 8000 (L)

Clue 2 (Addition): "A RIGHT HANDED PERSON LEFT THIS MARK"

3559 + 1761 = 5320 (A) · 4102 + 2616 = 6718 (T) · 5279 + 2570 = 7849 (O) · 2927 + 3129 = 6056 (I) · 6629 + 3051 = 9680 (M) · 3862 + 3494 = 7356 (G) · 3452 + 1763 = 5215 (H) · 4291 + 4126 = 8417 (F) · 3807 + 3407 = 7214 (P) · 1845 + 1715 = 3560 (L) · 4138 + 4766 = 8904 (D) · 5165 + 4249 = 9414 (E) · 4903 + 3438 = 8341 (S) · 1916 + 3298 = 5214 (R) · 2546 + 2114 = 4660 (K) · 2541 + 1883 = 4424 (N)

Clue 3 (Subtraction): "THE THIEF RAN AWAY FROM A SPIDER WEB"

5281 - 4157 = 1124 (T) · 2605 - 1115 = 1490 (B) · 10983 - 4406 = 6577 (I) · 10702 - 2959 = 7743 (P) · 8254 - 2739 = 5515 (M) · 7332 - 1402 = 5930 (Y) · 5087 - 2615 = 2472 (H) · 7602 - 4760 = 2842 (W) · 6580 - 1779 = 4801 (N) · 5830 - 4548 = 1282 (E) · 8061 - 1102 = 6959 (D) · 6123 - 2703 = 3420 (A) · 8066 - 1485 = 6581 (R) · 11723 - 3104 = 8619 (O) · 9206 - 3252 = 5954 (F) · 8093 - 1708 = 6385 (S)

Clue 4 (Rounding): "A SINGLE BLACK HAIR WAS ON THE MAP"

Round 478 to the nearest hundred = 500 (A) · Round 9,174 to the nearest thousand = 9000 (C) · Round 22 to the nearest ten = 20 (M) · Round 70 to the nearest ten = 70 (T) · Round 889 to the nearest hundred = 900 (R) · Round 4,255 to the nearest hundred = 4300 (I) · Round 174 to the nearest ten = 170 (W) · Round 201 to the nearest hundred = 200 (H) · Round 714 to the nearest hundred = 700 (N) · Round 1,083 to the nearest hundred = 1100 (E) · Round 6,727 to the nearest thousand = 7000 (L) · Round 4,955 to the nearest thousand = 5000 (O) · Round 2,916 to the nearest hundred = 2900 (S) · Round 2,277 to the nearest hundred = 2300 (B) · Round 32 to the nearest ten = 30 (P) · Round 111 to the nearest ten = 110 (K) · Round 1,742 to the nearest hundred = 1700 (G)

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

10 ÷ 2 = 5 · 33 ÷ 3 = 11 · 32 ÷ 8 = 4 · 18 ÷ 6 = 3 · 18 ÷ 2 = 9 · 6 ÷ 6 = 1 · 18 ÷ 9 = 2 · 144 ÷ 12 = 12 · 90 ÷ 9 = 10 · 77 ÷ 11 = 7 · 72 ÷ 9 = 8