



The Missing Compass Mystery

Grade 3 math · Multiplication, Addition, Rounding, Subtraction, Division · Reading level grades 1-2

Detective: _____ Date: _____

Someone snuck into the jungle camp and took the golden compass! Detective Sam needs your help to crack the codes and find the bandit.

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 Sneaky Bandit is _____

Possible suspects

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

NAME	SPECIAL GEAR	SCOUT SKILL	WATCH HAND	CAP COLOR	SCARED OF
Maya Chen	Map Scroll	Signal Fire	Right Hand Watch	Green Cap	Muddy Frogs
Sienna Ray	Binoculars	Path Finding	Left Hand Watch	Blue Cap	Muddy Frogs
Harper Hill	Grappling Hook	Path Finding	Right Hand Watch	Blue Cap	Muddy Frogs
Owen Black	Binoculars	Knot Tying	Right Hand Watch	Red Cap	Buzzing Bees
Liam Knight	Binoculars	Animal Calls	Left Hand Watch	Red Cap	Squeaky Bats
Ruby Adams	Rope Ladder	Signal Fire	Right Hand Watch	Red Cap	Buzzing Bees
Aria Vance	Flashlight Torch	Tree Climbing	Right Hand Watch	Blue Cap	Squeaky Bats
Zoe Miller	Binoculars	Path Finding	Right Hand Watch	Red Cap	Buzzing Bees
Nora Patel	Flashlight Torch	Tree Climbing	Left Hand Watch	Red Cap	Buzzing Bees
Eli Vance	Rope Ladder	Path Finding	Right Hand Watch	Red Cap	Buzzing Bees
Toby Frost	Flashlight Torch	Signal Fire	Left Hand Watch	Red Cap	Buzzing Bees
Jax Swift	Binoculars	Animal Calls	Right Hand Watch	Blue Cap	Squeaky Bats
Finn Baker	Binoculars	Signal Fire	Right Hand Watch	Green Cap	Buzzing Bees
Caleb Ford	Flashlight Torch	Knot Tying	Right Hand Watch	Red Cap	Buzzing Bees
Luke Young	Grappling Hook	Tree Climbing	Right Hand Watch	Blue Cap	Buzzing Bees
Tara Hayes	Rope Ladder	Animal Calls	Left Hand Watch	Red Cap	Muddy Frogs
Mia Chang	Binoculars	Path Finding	Right Hand Watch	Red Cap	Squeaky Bats
Ivy Stone	Grappling Hook	Knot Tying	Right Hand Watch	Green Cap	Muddy Frogs
Sammy Brooks	Binoculars	Animal Calls	Right Hand Watch	Red Cap	Buzzing Bees
Noah Reed	Binoculars	Signal Fire	Left Hand Watch	Blue Cap	Buzzing Bees
Mason Cole	Grappling Hook	Signal Fire	Left Hand Watch	Green Cap	Muddy Frogs

CLUE 1
Multiplication facts (1-12)

We found rows of supply boxes in the scout tent. Count the groups to unlock the first clue!

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

T								T							T			
4	60	20	7	108	16	3	35	4	3	100	20	120	16	100	4	99	120	20

			T	T				
70	16	100	4	4	144	35	16	56

$1 \times 4 = \boxed{} \rightarrow \boxed{\text{T}}$

$10 \times 12 = \boxed{} \rightarrow \boxed{\text{S}}$

$12 \times 12 = \boxed{} \rightarrow \boxed{\text{Y}}$

$10 \times 2 = \boxed{} \rightarrow \boxed{\text{E}}$

$4 \times 4 = \boxed{} \rightarrow \boxed{\text{N}}$

$7 \times 5 = \boxed{} \rightarrow \boxed{\text{I}}$

$9 \times 11 = \boxed{} \rightarrow \boxed{\text{U}}$

$7 \times 1 = \boxed{} \rightarrow \boxed{\text{B}}$

$7 \times 10 = \boxed{} \rightarrow \boxed{\text{K}}$

$6 \times 10 = \boxed{} \rightarrow \boxed{\text{H}}$

$8 \times 7 = \boxed{} \rightarrow \boxed{\text{G}}$

$3 \times 1 = \boxed{} \rightarrow \boxed{\text{D}}$

$12 \times 9 = \boxed{} \rightarrow \boxed{\text{A}}$

$10 \times 10 = \boxed{} \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 2

Addition

We gathered all the camp flashlight batteries together. Add them up to get the next clue.

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

W									W		W						
890	922	464	866	659	402	402	402	383	890	383	890	383	464	286	306	597	866

							W					
464	306	659	731	922	539	306	464	890	731	922	402	464

$357 + 533 = \square \rightarrow \boxed{W}$

$259 + 472 = \square \rightarrow \boxed{R}$

$377 + 162 = \square \rightarrow \boxed{G}$

$158 + 148 = \square \rightarrow \boxed{H}$

$219 + 183 = \square \rightarrow \boxed{S}$

$118 + 168 = \square \rightarrow \boxed{C}$

$301 + 163 = \square \rightarrow \boxed{T}$

$495 + 371 = \square \rightarrow \boxed{N}$

$332 + 327 = \square \rightarrow \boxed{E}$

$245 + 138 = \square \rightarrow \boxed{A}$

$368 + 229 = \square \rightarrow \boxed{O}$

$552 + 370 = \square \rightarrow \boxed{I}$

Scratch space:

CLUE 3

Rounding

The main scout radar panel rounds every distance to the nearest ten. Round the number to read the screen.

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

T								T							
8000	200	4000	60	9000	40	5000	3000	8000	800	9000	40	9000	700	9000	70
50	800	300	30	60	600	500	500	3000	40	6000	60	4000	4000	400	

Round 8,185 to the nearest thousand → **T**

Round 197 to the nearest hundred → **H**

Round 67 to the nearest ten → **Y**

Round 3,856 to the nearest thousand → **E**

Round 44 to the nearest ten → **N**

Round 4,576 to the nearest thousand → **D**

Round 32 to the nearest ten → **M**

Round 64 to the nearest ten → **B**

Round 8,525 to the nearest thousand → **A**

Round 766 to the nearest hundred → **R**

Round 54 to the nearest ten → **F**

Round 423 to the nearest hundred → **S**

Round 699 to the nearest hundred → **W**

Round 5,876 to the nearest thousand → **G**

Round 585 to the nearest hundred → **U**

Round 294 to the nearest hundred → **O**

Round 451 to the nearest hundred → **Z**

Round 2,626 to the nearest thousand → **I**

Scratch space:

CLUE 4

Subtraction

Some trail markers were taken from the pack. Subtract to see how many remain.

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

F																	
752	636	622	854	532	716	685	857	532	327	716	246	716	445	445	618	857	

445	685	857	857	618	636	622	127	857

$1084 - 332 = \square \rightarrow \boxed{\text{F}}$

$991 - 306 = \square \rightarrow \boxed{\text{R}}$

$901 - 44 = \square \rightarrow \boxed{\text{E}}$

$873 - 255 = \square \rightarrow \boxed{\text{H}}$

$950 - 328 = \square \rightarrow \boxed{\text{U}}$

$1246 - 392 = \square \rightarrow \boxed{\text{N}}$

$310 - 183 = \square \rightarrow \boxed{\text{S}}$

$533 - 88 = \square \rightarrow \boxed{\text{T}}$

$588 - 261 = \square \rightarrow \boxed{\text{C}}$

$722 - 86 = \square \rightarrow \boxed{\text{O}}$

$1004 - 288 = \square \rightarrow \boxed{\text{A}}$

$353 - 107 = \square \rightarrow \boxed{\text{P}}$

$861 - 329 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

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

We shared the snack bars equally among the scout patrols. Divide them to find the last 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:

$56 \div 7 = \boxed{}$

$11 \div 1 = \boxed{}$

$2 \div 2 = \boxed{}$

$30 \div 10 = \boxed{}$

$12 \div 1 = \boxed{}$

$4 \div 1 = \boxed{}$

$40 \div 8 = \boxed{}$

$9 \div 1 = \boxed{}$

$30 \div 5 = \boxed{}$

$120 \div 12 = \boxed{}$

$12 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain spied with binoculars, then found a hidden path.
2. The villain shined a flashlight torch, then tied a sturdy knot.
3. The villain spied with binoculars, then lit a signal fire.
4. The villain checked a map scroll, then found a hidden path.
5. The villain checked a map scroll, then tied a sturdy knot.
6. The villain shined a flashlight torch, then climbed a high tree.
7. The villain climbed a rope ladder, then lit a signal fire.
8. The villain spied with binoculars, then made wild animal calls.
9. The villain swung in with a grappling hook, then made wild animal calls.
10. The villain climbed a rope ladder, then climbed a high tree.
11. The villain climbed a rope ladder, then found a hidden path.
12. The villain swung in with a grappling hook, then climbed a high tree.

Answer Key

The Missing Compass Mystery

Culprit: Ruby Adams

Rope Ladder · Signal Fire · Right Hand Watch · Red Cap · Buzzing Bees

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

Clue 1 (Multiplication facts (1-12)): "THE BANDIT DOES NOT USE KNOT TYING"

$1 \times 4 = 4$ (T) · $10 \times 12 = 120$ (S) · $12 \times 12 = 144$ (Y) · $10 \times 2 = 20$ (E) · $4 \times 4 = 16$ (N) · $7 \times 5 = 35$ (I) · $9 \times 11 = 99$ (U) · $7 \times 1 = 7$ (B) · $7 \times 10 = 70$ (K) · $6 \times 10 = 60$ (H) · $8 \times 7 = 56$ (G) · $3 \times 1 = 3$ (D) · $12 \times 9 = 108$ (A) · $10 \times 10 = 100$ (O)

Clue 2 (Addition): "WITNESS SAW A WATCH ON THE RIGHT WRIST"

$357 + 533 = 890$ (W) · $259 + 472 = 731$ (R) · $377 + 162 = 539$ (G) · $158 + 148 = 306$ (H) · $219 + 183 = 402$ (S) · $118 + 168 = 286$ (C) · $301 + 163 = 464$ (T) · $495 + 371 = 866$ (N) · $332 + 327 = 659$ (E) · $245 + 138 = 383$ (A) · $368 + 229 = 597$ (O) · $552 + 370 = 922$ (I)

Clue 3 (Rounding): "THE BANDIT RAN AWAY FROM BUZZING BEES"

Round 8,185 to the nearest thousand = 8000 (T) · Round 197 to the nearest hundred = 200 (H) · Round 67 to the nearest ten = 70 (Y) · Round 3,856 to the nearest thousand = 4000 (E) · Round 44 to the nearest ten = 40 (N) · Round 4,576 to the nearest thousand = 5000 (D) · Round 32 to the nearest ten = 30 (M) · Round 64 to the nearest ten = 60 (B) · Round 8,525 to the nearest thousand = 9000 (A) · Round 766 to the nearest hundred = 800 (R) · Round 54 to the nearest ten = 50 (F) · Round 423 to the nearest hundred = 400 (S) · Round 699 to the nearest hundred = 700 (W) · Round 5,876 to the nearest thousand = 6000 (G) · Round 585 to the nearest hundred = 600 (U) · Round 294 to the nearest hundred = 300 (O) · Round 451 to the nearest hundred = 500 (Z) · Round 2,626 to the nearest thousand = 3000 (I)

Clue 4 (Subtraction): "FOUND A RED CAP AT THE TREE HOUSE"

$1084 - 332 = 752$ (F) · $991 - 306 = 685$ (R) · $901 - 44 = 857$ (E) · $873 - 255 = 618$ (H) · $950 - 328 = 622$ (U) · $1246 - 392 = 854$ (N) · $310 - 183 = 127$ (S) · $533 - 88 = 445$ (T) · $588 - 261 = 327$ (C) · $722 - 86 = 636$ (O) · $1004 - 288 = 716$ (A) · $353 - 107 = 246$ (P) · $861 - 329 = 532$ (D)

Clue 5 (Division facts (1-12)): surviving statement is box 7 → Ruby Adams

$56 \div 7 = 8$ · $11 \div 1 = 11$ · $2 \div 2 = 1$ · $30 \div 10 = 3$ · $12 \div 1 = 12$ · $4 \div 1 = 4$ · $40 \div 8 = 5$ · $9 \div 1 = 9$ · $30 \div 5 = 6$ · $120 \div 12 = 10$ · $12 \div 6 = 2$