



Mystery of the Cloud Island Map

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

Detective: _____ Date: _____

Someone swiped the Golden Compass from the Head Mapmaker! Solve the math clues to uncover which rogue sky pirate pulled off the theft.

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 Sky Pirate is _____

Possible suspects

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

NAME	AIRSHIP GEAR	SKY GADGET	GLIDER STANCE	BANDANA COLOR	WEAKNESS
Quinn	Wind Cannon	Brass Telescope	Left Glider Stance	Crimson Bandana	Shiny Objects
Leo	Compass Hook	Cloud Whistle	Right Glider Stance	Crimson Bandana	Shiny Objects
Yareli	Turbo Jetpack	Brass Goggles	Left Glider Stance	Sapphire Bandana	Strong Breezes
Hank	Compass Hook	Feather Glider	Right Glider Stance	Emerald Bandana	Loud Whistles
Finn	Rope Launcher	Brass Goggles	Left Glider Stance	Emerald Bandana	Strong Breezes
Ruby	Compass Hook	Golden Spy Glass	Left Glider Stance	Crimson Bandana	Strong Breezes
Sam	Turbo Jetpack	Brass Goggles	Right Glider Stance	Emerald Bandana	Strong Breezes
Olivia	Compass Hook	Brass Telescope	Right Glider Stance	Emerald Bandana	Strong Breezes
Grace	Smoke Bomb	Feather Glider	Left Glider Stance	Crimson Bandana	Strong Breezes
Ivy	Compass Hook	Brass Telescope	Right Glider Stance	Crimson Bandana	Strong Breezes
Pete	Wind Cannon	Brass Goggles	Left Glider Stance	Crimson Bandana	Strong Breezes
Jack	Rope Launcher	Golden Spy Glass	Left Glider Stance	Emerald Bandana	Shiny Objects
Trixie	Compass Hook	Feather Glider	Right Glider Stance	Sapphire Bandana	Loud Whistles
Kiki	Wind Cannon	Cloud Whistle	Left Glider Stance	Crimson Bandana	Strong Breezes
Xander	Compass Hook	Brass Telescope	Right Glider Stance	Emerald Bandana	Shiny Objects
Uma	Compass Hook	Brass Telescope	Left Glider Stance	Crimson Bandana	Strong Breezes
Wendy	Compass Hook	Feather Glider	Left Glider Stance	Crimson Bandana	Shiny Objects
Ned	Turbo Jetpack	Golden Spy Glass	Right Glider Stance	Crimson Bandana	Strong Breezes
Vance	Smoke Bomb	Brass Telescope	Right Glider Stance	Crimson Bandana	Loud Whistles
Maya	Compass Hook	Brass Telescope	Left Glider Stance	Crimson Bandana	Loud Whistles
Barnaby	Turbo Jetpack	Brass Telescope	Left Glider Stance	Crimson Bandana	Shiny Objects

CLUE 1 Rounding

The altimeter on the bridge screen only shows rounded numbers, so you estimate the height of the deck to decode a note.

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

T																	T
500	300	20	700	80	9000	9000	2000	80	900	800	4000	20	3000	900	4000	500	

60	3000	20	2000	50	9000	4000	60	800	70	300	80	3000	500	9000	20	

Round 477 to the nearest hundred →

T

Round 54 to the nearest ten →

C

Round 1,636 to the nearest thousand →

A

Round 9,257 to the nearest thousand →

L

Round 23 to the nearest ten →

E

Round 762 to the nearest hundred →

D

Round 682 to the nearest hundred →

V

Round 64 to the nearest ten →

U

Round 3,502 to the nearest thousand →

O

Round 66 to the nearest ten →

W

Round 904 to the nearest hundred →

N

Round 2,600 to the nearest thousand →

S

Round 296 to the nearest hundred →

H

Round 76 to the nearest ten →

I

Scratch space:

CLUE 2 Addition

You count up the total supply crates found near the vault to piece together the scene.

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

T									T		T							
532	846	987	257	968	257	312	987	954	532	257	532	948	464	428	257	698	464	
			T								T							
895	987	971	532	867	895	698	428	987	887	257	532	948	464	954	987			

$162 + 370 = \square \rightarrow \boxed{\text{T}}$

$521 + 346 = \square \rightarrow \boxed{\text{G}}$

$350 + 537 = \square \rightarrow \boxed{\text{R}}$

$342 + 606 = \square \rightarrow \boxed{\text{A}}$

$518 + 450 = \square \rightarrow \boxed{\text{U}}$

$371 + 524 = \square \rightarrow \boxed{\text{L}}$

$170 + 87 = \square \rightarrow \boxed{\text{S}}$

$295 + 133 = \square \rightarrow \boxed{\text{D}}$

$529 + 442 = \square \rightarrow \boxed{\text{F}}$

$397 + 449 = \square \rightarrow \boxed{\text{H}}$

$555 + 399 = \square \rightarrow \boxed{\text{C}}$

$374 + 324 = \square \rightarrow \boxed{\text{I}}$

$155 + 309 = \square \rightarrow \boxed{\text{N}}$

$308 + 679 = \square \rightarrow \boxed{\text{E}}$

$111 + 201 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 3

Subtraction

You calculate how many missing coins were taken from the chest to find the next lead.

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

T															
433	485	123	368	767	868	868	866	767	817	829	123	433	684		

201	817	434	162	201	123	818	434	368	123	654	513	418	513	654	123	123	850	123	684

$780 - 347 = \square \rightarrow \boxed{\text{T}}$

$713 - 228 = \square \rightarrow \boxed{\text{H}}$

$1121 - 304 = \square \rightarrow \boxed{\text{N}}$

$517 - 99 = \square \rightarrow \boxed{\text{Y}}$

$986 - 219 = \square \rightarrow \boxed{\text{I}}$

$570 - 136 = \square \rightarrow \boxed{\text{O}}$

$722 - 354 = \square \rightarrow \boxed{\text{V}}$

$1188 - 322 = \square \rightarrow \boxed{\text{A}}$

$1221 - 392 = \square \rightarrow \boxed{\text{G}}$

$836 - 182 = \square \rightarrow \boxed{\text{R}}$

$1045 - 227 = \square \rightarrow \boxed{\text{D}}$

$225 - 63 = \square \rightarrow \boxed{\text{C}}$

$447 - 324 = \square \rightarrow \boxed{\text{E}}$

$786 - 273 = \square \rightarrow \boxed{\text{B}}$

$957 - 107 = \square \rightarrow \boxed{\text{Z}}$

$976 - 292 = \square \rightarrow \boxed{\text{S}}$

$580 - 379 = \square \rightarrow \boxed{\text{K}}$

$920 - 52 = \square \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 4
Multiplication facts (1-12)

You inspect equal rows of locker doors along the hallway to unlock a hidden secret.

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

T																	
6	110	1	55	10	66	66	99	10	8	120	121	22	144	144	1	120	99

64	121	10	2	77	22	8	40	99	8	120	99	8	99				

$2 \times 3 = \square \rightarrow \text{T}$

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

$1 \times 8 = \square \rightarrow \text{N}$

$5 \times 8 = \square \rightarrow \text{B}$

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

$11 \times 11 = \square \rightarrow \text{R}$

$7 \times 11 = \square \rightarrow \text{S}$

$2 \times 1 = \square \rightarrow \text{M}$

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

$1 \times 10 = \square \rightarrow \text{I}$

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

$11 \times 9 = \square \rightarrow \text{A}$

$10 \times 11 = \square \rightarrow \text{H}$

$5 \times 11 = \square \rightarrow \text{V}$

$12 \times 12 = \square \rightarrow \text{P}$

$11 \times 6 = \square \rightarrow \text{L}$

Scratch space:

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

You share out the remaining signal flares equally among the crew 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:

$90 \div 10 = \square$

$11 \div 1 = \square$

$70 \div 7 = \square$

$20 \div 10 = \square$

$3 \div 3 = \square$

$9 \div 3 = \square$

$32 \div 4 = \square$

$5 \div 1 = \square$

$32 \div 8 = \square$

$42 \div 6 = \square$

$48 \div 8 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain shoots the rope launcher, then checks the brass telescope.
2. The villain shoots the rope launcher, then polishes the golden spy glass.
3. The villain shoots the rope launcher, then adjusts the brass goggles.
4. The villain zooms off on a turbo jetpack, then checks the brass telescope.
5. The villain zooms off on a turbo jetpack, then glides away on a feather glider.
6. The villain zooms off on a turbo jetpack, then adjusts the brass goggles.
7. The villain zooms off on a turbo jetpack, then polishes the golden spy glass.
8. The villain fires the compass hook, then adjusts the brass goggles.
9. The villain fires the compass hook, then polishes the golden spy glass.
10. The villain blasts the wind cannon, then adjusts the brass goggles.
11. The villain fires the compass hook, then checks the brass telescope.
12. The villain drops a smoke bomb, then glides away on a feather glider.

Answer Key

Mystery of the Cloud Island Map

Culprit: Grace

Smoke Bomb · Feather Glider · Left Glider Stance · Crimson Bandana · Strong Breezes

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT USE A CLOUD WHISTLE"

Round 477 to the nearest hundred = 500 (T) · Round 54 to the nearest ten = 50 (C) · Round 1,636 to the nearest thousand = 2000 (A) · Round 9,257 to the nearest thousand = 9000 (L) · Round 23 to the nearest ten = 20 (E) · Round 762 to the nearest hundred = 800 (D) · Round 682 to the nearest hundred = 700 (V) · Round 64 to the nearest ten = 60 (U) · Round 3,502 to the nearest thousand = 4000 (O) · Round 66 to the nearest ten = 70 (W) · Round 904 to the nearest hundred = 900 (N) · Round 2,600 to the nearest thousand = 3000 (S) · Round 296 to the nearest hundred = 300 (H) · Round 76 to the nearest ten = 80 (I)

Clue 2 (Addition): "THE SUSPECT STANDS IN LEFT GLIDER STANCE"

$162 + 370 = 532$ (T) · $521 + 346 = 867$ (G) · $350 + 537 = 887$ (R) · $342 + 606 = 948$ (A) · $518 + 450 = 968$ (U) · $371 + 524 = 895$ (L) · $170 + 87 = 257$ (S) · $295 + 133 = 428$ (D) · $529 + 442 = 971$ (F) · $397 + 449 = 846$ (H) · $555 + 399 = 954$ (C) · $374 + 324 = 698$ (I) · $155 + 309 = 464$ (N) · $308 + 679 = 987$ (E) · $111 + 201 = 312$ (P)

Clue 3 (Subtraction): "THE VILLAIN GETS KNOCKED OVER BY BREEZES"

$780 - 347 = 433$ (T) · $713 - 228 = 485$ (H) · $1121 - 304 = 817$ (N) · $517 - 99 = 418$ (Y) · $986 - 219 = 767$ (I) · $570 - 136 = 434$ (O) · $722 - 354 = 368$ (V) · $1188 - 322 = 866$ (A) · $1221 - 392 = 829$ (G) · $836 - 182 = 654$ (R) · $1045 - 227 = 818$ (D) · $225 - 63 = 162$ (C) · $447 - 324 = 123$ (E) · $786 - 273 = 513$ (B) · $957 - 107 = 850$ (Z) · $976 - 292 = 684$ (S) · $580 - 379 = 201$ (K) · $920 - 52 = 868$ (L)

Clue 4 (Multiplication facts (1-12)): "THE VILLAIN DROPPED A CRIMSON BANDANA"

$2 \times 3 = 6$ (T) · $1 \times 1 = 1$ (E) · $1 \times 8 = 8$ (N) · $5 \times 8 = 40$ (B) · $8 \times 8 = 64$ (C) · $11 \times 11 = 121$ (R) · $7 \times 11 = 77$ (S) · $2 \times 1 = 2$ (M) · $10 \times 12 = 120$ (D) · $1 \times 10 = 10$ (I) · $2 \times 11 = 22$ (O) · $11 \times 9 = 99$ (A) · $10 \times 11 = 110$ (H) · $5 \times 11 = 55$ (V) · $12 \times 12 = 144$ (P) · $11 \times 6 = 66$ (L)

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

$90 \div 10 = 9$ · $11 \div 1 = 11$ · $70 \div 7 = 10$ · $20 \div 10 = 2$ · $3 \div 3 = 1$ · $9 \div 3 = 3$ · $32 \div 4 = 8$ · $5 \div 1 = 5$ · $32 \div 8 = 4$ · $42 \div 6 = 7$ · $48 \div 8 = 6$