



Mystery of the Cloud Kingdom Bandit

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

Detective: _____ Date: _____

A sneaky Cloud Bandit snatched the Golden Compass from the Chief Navigator at the high air dock! Decode the evidence to unmask the culprit before they fly away into the clouds!

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 Cloud Bandit is _____

Possible suspects

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

NAME	MAIN GEAR	GADGET	HANDEDNESS	GOGGLES	WEAKNESS
Commander Cruz	Turbo Propeller	Signal Flare	Left Handed	Brass Goggles	Cold Drafts
Pilot Parker	Turbo Propeller	Signal Flare	Right Handed	Brass Goggles	Bright Flashlight
Pilot Pete	Steam Jetpack	Signal Flare	Right Handed	Copper Goggles	Bright Flashlight
Aviator Amos	Solar Sail	Grappling Hook	Left Handed	Copper Goggles	Bright Flashlight
Captain Chloe	Steering Glider	Grappling Hook	Right Handed	Copper Goggles	Cold Drafts
Pilot Penny	Lightning Kite	Signal Flare	Left Handed	Brass Goggles	Loud Whistles
Navigator Nina	Steering Glider	Echo Horn	Right Handed	Copper Goggles	Bright Flashlight
Baron Blake	Lightning Kite	Smoke Bomb	Left Handed	Brass Goggles	Loud Whistles
Scout Simon	Solar Sail	Signal Flare	Left Handed	Copper Goggles	Loud Whistles
Aviator Ava	Turbo Propeller	Compass Watch	Right Handed	Copper Goggles	Bright Flashlight
Navigator Nora	Steering Glider	Compass Watch	Right Handed	Copper Goggles	Cold Drafts
Flyer Fiona	Solar Sail	Compass Watch	Left Handed	Silver Goggles	Bright Flashlight
Commander Cleo	Lightning Kite	Smoke Bomb	Right Handed	Copper Goggles	Bright Flashlight
Aviator Archie	Solar Sail	Echo Horn	Right Handed	Brass Goggles	Bright Flashlight
Skypilot Sally	Steering Glider	Compass Watch	Right Handed	Brass Goggles	Cold Drafts
Sky Scout Sam	Steam Jetpack	Echo Horn	Right Handed	Copper Goggles	Bright Flashlight
Baron Ben	Steam Jetpack	Echo Horn	Right Handed	Copper Goggles	Loud Whistles
Pilot Paige	Lightning Kite	Smoke Bomb	Right Handed	Brass Goggles	Loud Whistles
Captain Barnaby	Steam Jetpack	Smoke Bomb	Left Handed	Brass Goggles	Loud Whistles
Captain Cal	Steering Glider	Smoke Bomb	Right Handed	Brass Goggles	Bright Flashlight
Captain Cora	Turbo Propeller	Grappling Hook	Right Handed	Brass Goggles	Cold Drafts

Multiplication facts (1-12)

You find identical crates of map scrolls stacked neatly in equal rows on the air dock.

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

$4 \times 11 = \boxed{} \rightarrow \boxed{\text{T}}$

$7 \times 8 = \square \rightarrow \mathbf{A}$

$2 \times 8 = \square \rightarrow \mathbf{W}$

$5 \times 7 = \boxed{} \rightarrow \boxed{\mathbf{B}}$

$4 \times 8 = \square \rightarrow \boxed{1}$

$7 \times 3 = \square \rightarrow \boxed{\text{C}}$

$3 \times 11 =$ $\rightarrow$ **S**

$9 \times 7 = \boxed{} \rightarrow \boxed{\text{M}}$

$9 \times 2 = \square \rightarrow \boxed{\text{D}}$

$$5 \times 5 = \boxed{} \rightarrow \boxed{0}$$

$12 \times 4 = \square \rightarrow \text{P}$

$3 \times 12 = \boxed{} \rightarrow \boxed{\text{E}}$

$6 \times 1 = \square \rightarrow \boxed{\text{U}}$

$2 \times 7 = \square \rightarrow \boxed{\mathbf{N}}$

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

Scratch space:

CLUE 2
Rounding

The cloud radar screen only displays flight altitudes rounded to the nearest ten.

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

T										T						T					
500	60	8000	6000	900	6000	7000	8000	40	500	900	6000	8000	50	500	60	8000	600	5000			
				T						T			T								
5000	600	200	60	500	60	30	2000	50	500	20	6000	500	8000	8000	5000						

Round 460 to the nearest hundred → **T**

Round 243 to the nearest hundred → **G**

Round 7,663 to the nearest thousand → **E**

Round 30 to the nearest ten → **A**

Round 899 to the nearest hundred → **U**

Round 4,536 to the nearest thousand → **R**

Round 24 to the nearest ten → **O**

Round 36 to the nearest ten → **C**

Round 1,972 to the nearest thousand → **N**

Round 6,219 to the nearest thousand → **S**

Round 59 to the nearest ten → **H**

Round 7,338 to the nearest thousand → **P**

Round 604 to the nearest hundred → **I**

Round 53 to the nearest ten → **D**

Scratch space:

CLUE 3 Addition

You combine the fuel logs from two separate sky stations to see the total burned.

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

A									A							
627	284	865	916	352	280	396	252	751	627	933	280	751	916	352	280	396

										A						
284	751	916	744	931	683	931	396	280	683	284	627	744	931	916	396	

$431 + 196 = \boxed{} \rightarrow \boxed{\text{A}}$

$319 + 364 = \boxed{} \rightarrow \boxed{\text{E}}$

$490 + 441 = \boxed{} \rightarrow \boxed{\text{D}}$

$466 + 467 = \boxed{} \rightarrow \boxed{\text{S}}$

$503 + 362 = \boxed{} \rightarrow \boxed{\text{R}}$

$158 + 238 = \boxed{} \rightarrow \boxed{\text{T}}$

$96 + 156 = \boxed{} \rightarrow \boxed{\text{F}}$

$231 + 121 = \boxed{} \rightarrow \boxed{\text{G}}$

$194 + 90 = \boxed{} \rightarrow \boxed{\text{B}}$

$327 + 424 = \boxed{} \rightarrow \boxed{\text{L}}$

$336 + 580 = \boxed{} \rightarrow \boxed{\text{I}}$

$125 + 155 = \boxed{} \rightarrow \boxed{\text{H}}$

$358 + 386 = \boxed{} \rightarrow \boxed{\text{N}}$

Scratch space:

Subtraction

You calculate how many airship tokens were taken from the chest by comparing totals.

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

A 2x10 grid of boxes. The first row contains the numbers 115, 276, 605, 605, 804, 529, 563, 276, 563, 563, 283, 804, 313, 744, 804, 529, 804. The second row contains the numbers 557, 529, 276, 605, 605, 804, 557, 459, 441, 441, 731, 804, 313, 115, 804, 229, 804. The box containing 115 in the first row and the box containing 115 in the second row are highlighted with an orange background and a large orange 'C' in the top-left corner.

$$486 - 371 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$572 - 43 = \boxed{} \rightarrow \boxed{\text{R}}$$

$339 - 56 = \boxed{} \rightarrow \boxed{\text{L}}$

$515 - 56 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$289 - 60 = \boxed{} \rightarrow \boxed{\text{N}}$

$955 - 350 = \boxed{} \rightarrow \boxed{\text{P}}$

$$484 - 171 = \boxed{} \rightarrow \boxed{\text{S}}$$

$626 - 69 = \boxed{} \rightarrow \boxed{\text{D}}$

$778 - 34 = \boxed{} \rightarrow \boxed{\text{W}}$

$$511 - 235 = \boxed{} \rightarrow \boxed{0}$$

$658 - 217 = \boxed{} \rightarrow \boxed{\text{T}}$

$686 - 123 = \square \rightarrow \mathbf{G}$

$944 - 213 = \square \rightarrow \boxed{\text{H}}$

$1167 - 363 = \boxed{} \rightarrow \boxed{\text{E}}$

Scratch space:

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

The sky crew splits the remaining signal flags equally among the patrol boats.

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:

$12 \div 4 = \boxed{}$

$96 \div 8 = \boxed{}$

$24 \div 4 = \boxed{}$

$30 \div 6 = \boxed{}$

$7 \div 1 = \boxed{}$

$88 \div 11 = \boxed{}$

$2 \div 1 = \boxed{}$

$72 \div 8 = \boxed{}$

$90 \div 9 = \boxed{}$

$11 \div 1 = \boxed{}$

$10 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain coasted using a solar sail, then fired a signal flare.
2. The villain buzzed with a turbo propeller, then blared an echo horn.
3. The villain zoomed on a steam jetpack, then fired a signal flare.
4. The villain zoomed on a steam jetpack, then blared an echo horn.
5. The villain buzzed with a turbo propeller, then checked a compass watch.
6. The villain soared with a lightning kite, then tossed a smoke bomb.
7. The villain zoomed on a steam jetpack, then latched on with a grappling hook.
8. The villain buzzed with a turbo propeller, then latched on with a grappling hook.
9. The villain coasted using a solar sail, then tossed a smoke bomb.
10. The villain buzzed with a turbo propeller, then fired a signal flare.
11. The villain glided on a steering glider, then tossed a smoke bomb.
12. The villain glided on a steering glider, then blared an echo horn.

Answer Key

Mystery of the Cloud Kingdom Bandit

Culprit: Sky Scout Sam

Steam Jetpack · Echo Horn · Right Handed · Copper Goggles · Bright Flashlight

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE BANDIT DOES NOT USE A COMPASS WATCH"

$4 \times 11 = 44$ (T) · $7 \times 8 = 56$ (A) · $2 \times 8 = 16$ (W) · $5 \times 7 = 35$ (B) · $4 \times 8 = 32$ (I) · $7 \times 3 = 21$ (C) · $3 \times 11 = 33$ (S) · $9 \times 7 = 63$ (M) · $9 \times 2 = 18$ (D) · $5 \times 5 = 25$ (O) · $12 \times 4 = 48$ (P) · $3 \times 12 = 36$ (E) · $6 \times 1 = 6$ (U) · $2 \times 7 = 14$ (N) · $10 \times 12 = 120$ (H)

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

Round 460 to the nearest hundred = 500 (T) · Round 243 to the nearest hundred = 200 (G) · Round 7,663 to the nearest thousand = 8000 (E) · Round 30 to the nearest ten = 30 (A) · Round 899 to the nearest hundred = 900 (U) · Round 4,536 to the nearest thousand = 5000 (R) · Round 24 to the nearest ten = 20 (O) · Round 36 to the nearest ten = 40 (C) · Round 1,972 to the nearest thousand = 2000 (N) · Round 6,219 to the nearest thousand = 6000 (S) · Round 59 to the nearest ten = 60 (H) · Round 7,338 to the nearest thousand = 7000 (P) · Round 604 to the nearest hundred = 600 (I) · Round 53 to the nearest ten = 50 (D)

Clue 3 (Addition): "A BRIGHT FLASHLIGHT BLINDED THE BANDIT"

$431 + 196 = 627$ (A) · $319 + 364 = 683$ (E) · $490 + 441 = 931$ (D) · $466 + 467 = 933$ (S) · $503 + 362 = 865$ (R) · $158 + 238 = 396$ (T) · $96 + 156 = 252$ (F) · $231 + 121 = 352$ (G) · $194 + 90 = 284$ (B) · $327 + 424 = 751$ (L) · $336 + 580 = 916$ (I) · $125 + 155 = 280$ (H) · $358 + 386 = 744$ (N)

Clue 4 (Subtraction): "COPPER GOGGLES WERE DROPPED AT THE SCENE"

$486 - 371 = 115$ (C) · $572 - 43 = 529$ (R) · $339 - 56 = 283$ (L) · $515 - 56 = 459$ (A) · $289 - 60 = 229$ (N) · $955 - 350 = 605$ (P) · $484 - 171 = 313$ (S) · $626 - 69 = 557$ (D) · $778 - 34 = 744$ (W) · $511 - 235 = 276$ (O) · $658 - 217 = 441$ (T) · $686 - 123 = 563$ (G) · $944 - 213 = 731$ (H) · $1167 - 363 = 804$ (E)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Sky Scout Sam

$12 \div 4 = 3$ · $96 \div 8 = 12$ · $24 \div 4 = 6$ · $30 \div 6 = 5$ · $7 \div 1 = 7$ · $88 \div 11 = 8$ · $2 \div 1 = 2$ · $72 \div 8 = 9$ · $90 \div 9 = 10$ · $11 \div 1 = 11$ · $10 \div 10 = 1$