



The Cloud Kingdom Caper

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

Detective: _____ Date: _____

A sneaky sky bandit has snuck onto the flagship and stolen the legendary Compass of the Winds from the Chief Cartographer's cabin! We must search the floating docks to find the culprit before they sail away into the storm.

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 sky bandit is _____

Possible suspects

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

NAME	SKY-SHIP GEAR	CARRIED ARTIFACT	STEERING HAND	HAIR COLOR	WEAKNESS
Clara	Steam Jet	Wind Whistle	Left-handed	Storm Blue	Sweet Apples
Ruby	Glider Wings	Map Decoder	Left-handed	Cloud White	Shiny Coins
Cooper	Steam Jet	Map Decoder	Right-handed	Cloud White	Sweet Apples
Pilot Leo	Steam Jet	Storm Lantern	Right-handed	Cloud White	Squeaky Toys
Oliver	Propeller Pack	Storm Lantern	Left-handed	Storm Blue	Shiny Coins
Captain Pete	Turbo Balloon	Map Decoder	Left-handed	Bright Orange	Sweet Apples
Penny	Propeller Pack	Spy Scope	Left-handed	Cloud White	Shiny Coins
Piper	Grapple Hook	Storm Lantern	Right-handed	Bright Orange	Squeaky Toys
Finn	Glider Wings	Storm Lantern	Right-handed	Cloud White	Sweet Apples
Zoe	Turbo Balloon	Storm Lantern	Left-handed	Cloud White	Sweet Apples
Toby	Glider Wings	Glow Compass	Right-handed	Cloud White	Squeaky Toys
Navigator Ned	Turbo Balloon	Wind Whistle	Left-handed	Storm Blue	Sweet Apples
Dash	Turbo Balloon	Map Decoder	Left-handed	Storm Blue	Squeaky Toys
Barnaby	Turbo Balloon	Storm Lantern	Right-handed	Cloud White	Sweet Apples
Jax	Turbo Balloon	Map Decoder	Right-handed	Cloud White	Shiny Coins
Hazel	Grapple Hook	Glow Compass	Right-handed	Cloud White	Squeaky Toys
Mechanic Maya	Steam Jet	Wind Whistle	Right-handed	Bright Orange	Squeaky Toys
Skipper Jill	Glider Wings	Spy Scope	Left-handed	Cloud White	Squeaky Toys
Felix	Grapple Hook	Wind Whistle	Right-handed	Cloud White	Squeaky Toys
Scout Sam	Propeller Pack	Map Decoder	Right-handed	Cloud White	Squeaky Toys
Bella	Steam Jet	Storm Lantern	Right-handed	Cloud White	Sweet Apples

CLUE 1

We found a locked vault on the sky-ship. The digits on the security keypad represent different values. Solve this place value puzzle to unlock the first clue!

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

8000 90 3000 300 50 200 60 10 8000 60 500 3000 9000 200 500 8000 400 9000 3000

50 600 50 4000 60 3000 2000 500 60 3000 800

What is the value of the 8 in 8,279? → **T**

What is the value of the 2 in 201? → **N**

What is the value of the 5 in 8,458? → **A**

What is the value of the 9 in 3,297? → **H**

What is the value of the 3 in 4,362? → **B**

What is the value of the 9 in 9,266? → **S**

What is the value of the 2 in 2,847? → **C**

What is the value of the 8 in 5,801? → **R**

What is the value of the 1 in 613? →

What is the value of the 4 in 466? → **U**

What is the value of the 4 in 54,709? → **P**

What is the value of the 3 in 73,472? → **E**

What is the value of the 5 in 547? →

What is the value of the 6 in 7,641? → **M**

What is the value of the 6 in 860? → **D**

Scratch space:

CLUE 2 Rounding

The ship's altitude meter is broken and only displays rounded numbers. Round these heights to the nearest ten to find the correct path through the clouds.

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

T										T									
230	200	7000	300	3000	70	70	110	90	230	7000	7000	3000	90	70	1700	50	370		
		T		T						T									
30	130	230	200	230	200	7000	3000	130	900	200	230	200	1300	1700	2000				

Round 228 to the nearest ten → **T**

Round 906 to the nearest hundred → **G**

Round 86 to the nearest ten → **S**

Round 7,096 to the nearest thousand → **E**

Round 108 to the nearest ten → **K**

Round 48 to the nearest ten → **L**

Round 127 to the nearest ten → **I**

Round 1,270 to the nearest hundred → **A**

Round 67 to the nearest ten → **O**

Round 374 to the nearest ten → **Y**

Round 1,725 to the nearest hundred → **N**

Round 3,323 to the nearest thousand → **R**

Round 318 to the nearest hundred → **C**

Round 30 to the nearest ten → **W**

Round 2,103 to the nearest thousand → **D**

Round 237 to the nearest hundred → **H**

Scratch space:

CLUE 3

We need to pack enough gear for the chase. Add up all the rope coils and life vests in the cargo boxes to see what we have.

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

A 2x10 grid of boxes. The top row contains the following numbers from left to right: 8365, 4452, 3036, 6395, 5044, 7633, 4606, 8314, 6120, 8314, 6395, 3988, 7111, 8365, 4452, 3036, 6395. The bottom row contains the following numbers from left to right: 4452, 3036, 8314, 5044, 3138, 7024, 7633, 3036, 8314, 9150, 6395, 8365, 4788, 6395, 3138. In the top row, the box containing '8365' at the 4th position is highlighted orange and contains a 'T' marker. In the bottom row, the box containing '8365' at the 12th position is highlighted orange and contains a 'T' marker.

$$4836 + 3529 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$2095 + 2949 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$2237 + 4158 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$1281 + 1857 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$2824 + 1782 = \boxed{} \rightarrow \boxed{\text{N}}$$

$2447 + 4664 = \boxed{} \rightarrow \boxed{\text{F}}$

$$5826 + 3324 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$4549 + 2475 = \boxed{} \rightarrow \boxed{\text{Q}}$$

$$1634 + 2818 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2054 + 4066 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$4725 + 2908 = \boxed{} \rightarrow \boxed{\text{U}}$$

$$5010 + 3304 = \boxed{} \rightarrow \boxed{\text{A}}$$

$$2195 + 1793 = \boxed{} \rightarrow \boxed{\text{I}}$$

$1447 + 1589 = \boxed{} \rightarrow \boxed{\text{E}}$

$$2025 + 2763 = \boxed{} \rightarrow \boxed{0}$$

Scratch space:

CLUE 4

Subtraction

The bandit dropped a bag of heavy sky-stones to escape. Subtract the weight of the dropped stones from the total ship load to see how light we are.

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

W												W				
6530	7302	5204	7301	5906	3315	5135	3026	5680	7301	5906	5135	6530	3352	4645	2142	7302

3352	3837	4645	6476	4645	3315	2142	3352	7302	3026	3837	8538	4645	3315

$8536 - 2006 = \square \rightarrow \boxed{\text{W}}$

$2854 - 712 = \square \rightarrow \boxed{\text{T}}$

$9995 - 1457 = \square \rightarrow \boxed{\text{B}}$

$6239 - 1594 = \square \rightarrow \boxed{\text{I}}$

$3981 - 666 = \square \rightarrow \boxed{\text{N}}$

$9990 - 2689 = \square \rightarrow \boxed{\text{O}}$

$6131 - 996 = \square \rightarrow \boxed{\text{D}}$

$7453 - 2249 = \square \rightarrow \boxed{\text{F}}$

$7348 - 1668 = \square \rightarrow \boxed{\text{L}}$

$5954 - 2602 = \square \rightarrow \boxed{\text{H}}$

$6799 - 893 = \square \rightarrow \boxed{\text{U}}$

$11238 - 3936 = \square \rightarrow \boxed{\text{E}}$

$4871 - 1034 = \square \rightarrow \boxed{\text{A}}$

$7408 - 4382 = \square \rightarrow \boxed{\text{C}}$

$7484 - 1008 = \square \rightarrow \boxed{\text{R}}$

Scratch space:

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

We found a stash of energy cookies to share among our crew. Divide the cookies equally among the search teams so everyone gets an even share.

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:

$99 \div 11 = \boxed{}$

$80 \div 10 = \boxed{}$

$36 \div 12 = \boxed{}$

$40 \div 10 = \boxed{}$

$35 \div 5 = \boxed{}$

$20 \div 2 = \boxed{}$

$50 \div 10 = \boxed{}$

$30 \div 5 = \boxed{}$

$4 \div 4 = \boxed{}$

$6 \div 3 = \boxed{}$

$121 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain floated away in a turbo balloon, then blew a loud wind whistle.
2. The villain zoomed off with a propeller pack, then dropped a glowing compass.
3. The villain swung away using a grapple hook, then dropped a glowing compass.
4. The villain swung away using a grapple hook, then knocked over a storm lantern.
5. The villain blasted off with a steam jet, then shattered a brass spy scope.
6. The villain zoomed off with a propeller pack, then knocked over a storm lantern.
7. The villain floated away in a turbo balloon, then lost a wooden map decoder.
8. The villain blasted off with a steam jet, then knocked over a storm lantern.
9. The villain swung away using a grapple hook, then blew a loud wind whistle.
10. The villain blasted off with a steam jet, then dropped a glowing compass.
11. The villain blasted off with a steam jet, then blew a loud wind whistle.
12. The villain soared away on glider wings, then dropped a glowing compass.

Answer Key

The Cloud Kingdom Caper

Culprit: Toby

Glider Wings · Glow Compass · Right-handed · Cloud White · Squeaky Toys

Trail: Start 21 → Clue 1 15 → Clue 2 9 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE BANDIT DOES NOT USE A MAP DECODER"

What is the value of the 8 in 8,279? = 8000 (T) · What is the value of the 2 in 201? = 200 (N) · What is the value of the 5 in 8,458? = 50 (A) · What is the value of the 9 in 3,297? = 90 (H) · What is the value of the 3 in 4,362? = 300 (B) · What is the value of the 9 in 9,266? = 9000 (S) · What is the value of the 2 in 2,847? = 2000 (C) · What is the value of the 8 in 5,801? = 800 (R) · What is the value of the 1 in 613? = 10 (I) · What is the value of the 4 in 466? = 400 (U) · What is the value of the 4 in 54,709? = 4000 (P) · What is the value of the 3 in 73,472? = 3000 (E) · What is the value of the 5 in 547? = 500 (O) · What is the value of the 6 in 7,641? = 600 (M) · What is the value of the 6 in 860? = 60 (D)

Clue 2 (Rounding): "THE CROOK STEERS ONLY WITH THE RIGHT HAND"

Round 228 to the nearest ten = 230 (T) · Round 906 to the nearest hundred = 900 (G) · Round 86 to the nearest ten = 90 (S) · Round 7,096 to the nearest thousand = 7000 (E) · Round 108 to the nearest ten = 110 (K) · Round 48 to the nearest ten = 50 (L) · Round 127 to the nearest ten = 130 (I) · Round 1,270 to the nearest hundred = 1300 (A) · Round 67 to the nearest ten = 70 (O) · Round 374 to the nearest ten = 370 (Y) · Round 1,725 to the nearest hundred = 1700 (N) · Round 3,323 to the nearest thousand = 3000 (R) · Round 318 to the nearest hundred = 300 (C) · Round 30 to the nearest ten = 30 (W) · Round 2,103 to the nearest thousand = 2000 (D) · Round 237 to the nearest hundred = 200 (H)

Clue 3 (Addition): "THEY RUN AWAY IF THEY HEAR SQUEAKY TOYS"

$4836 + 3529 = 8365$ (T) · $2095 + 2949 = 5044$ (R) · $2237 + 4158 = 6395$ (Y) · $1281 + 1857 = 3138$ (S) · $2824 + 1782 = 4606$ (N) · $2447 + 4664 = 7111$ (F) · $5826 + 3324 = 9150$ (K) · $4549 + 2475 = 7024$ (Q) · $1634 + 2818 = 4452$ (H) · $2054 + 4066 = 6120$ (W) · $4725 + 2908 = 7633$ (U) · $5010 + 3304 = 8314$ (A) · $2195 + 1793 = 3988$ (I) · $1447 + 1589 = 3036$ (E) · $2025 + 2763 = 4788$ (O)

Clue 4 (Subtraction): "WE FOUND CLOUD WHITE HAIR IN THE CABIN"

$8536 - 2006 = 6530$ (W) · $2854 - 712 = 2142$ (T) · $9995 - 1457 = 8538$ (B) · $6239 - 1594 = 4645$ (I) · $3981 - 666 = 3315$ (N) · $9990 - 2689 = 7301$ (O) · $6131 - 996 = 5135$ (D) · $7453 - 2249 = 5204$ (F) · $7348 - 1668 = 5680$ (L) · $5954 - 2602 = 3352$ (H) · $6799 - 893 = 5906$ (U) · $11238 - 3936 = 7302$ (E) · $4871 - 1034 = 3837$ (A) · $7408 - 4382 = 3026$ (C) · $7484 - 1008 = 6476$ (R)

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

$99 \div 11 = 9$ · $80 \div 10 = 8$ · $36 \div 12 = 3$ · $40 \div 10 = 4$ · $35 \div 5 = 7$ · $20 \div 2 = 10$ · $50 \div 10 = 5$ · $30 \div 5 = 6$ · $4 \div 4 = 1$ · $6 \div 3 = 2$ · $121 \div 11 = 11$