

The Golden Beetle of Castaway Cove

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

Detective: _____ Date: _____

The golden beetle statue is missing from the jungle museum! Chief Archeologist Dr Ellie needs your help to track down the sneaky explorer who took it.

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 Masked Explorer is _____

Possible suspects

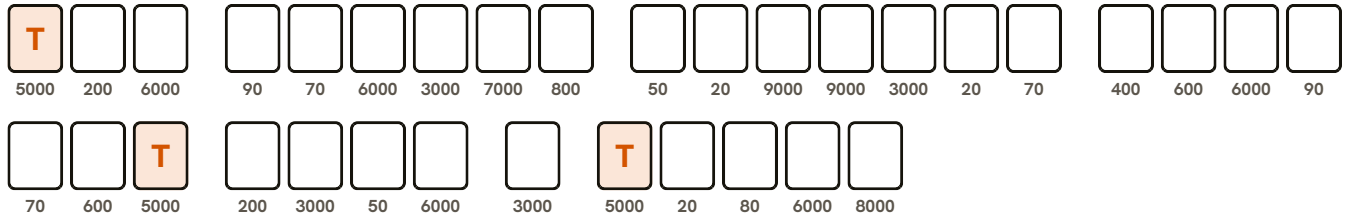
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	JUNGLE TOOL	PET PARTNER	ACTIVE HAND	HAT COLOR	FEAR
Safari Sally	Machete	Monkey	Right-handed	Brown Fedora	Spiders
Jungle Jack	Machete	Tree Frog	Left-handed	Green Pith Hat	Spiders
Summit Sue	Machete	Baby Tiger	Left-handed	Yellow Helmet	Heights
Wild Bill	Machete	Parrot	Right-handed	Green Pith Hat	Spiders
Dr Max	Compass	Chameleon	Right-handed	Green Pith Hat	Heights
River Rosie	Machete	Tree Frog	Right-handed	Green Pith Hat	Spiders
Forest Fern	Machete	Parrot	Right-handed	Green Pith Hat	Heights
Explorer Jane	Flashlight	Chameleon	Right-handed	Green Pith Hat	Heights
Valley Vince	Flashlight	Tree Frog	Right-handed	Yellow Helmet	Spiders
Delta Dawn	Spyglass	Monkey	Right-handed	Green Pith Hat	Spiders
Scout Steve	Compass	Parrot	Right-handed	Yellow Helmet	Heights
Professor Penny	Machete	Monkey	Right-handed	Green Pith Hat	Spiders
Captain Sam	Flashlight	Parrot	Right-handed	Brown Fedora	Water
Hiker Holly	Compass	Baby Tiger	Right-handed	Green Pith Hat	Heights
Trekker Tess	Grappling Hook	Monkey	Right-handed	Yellow Helmet	Heights
Canyon Cole	Machete	Parrot	Left-handed	Green Pith Hat	Spiders
Pathfinder Pete	Flashlight	Tree Frog	Left-handed	Green Pith Hat	Heights
Marina Mike	Spyglass	Tree Frog	Right-handed	Green Pith Hat	Heights
Ranger Rick	Flashlight	Baby Tiger	Right-handed	Green Pith Hat	Heights
Zookeeper Zoe	Machete	Tree Frog	Right-handed	Brown Fedora	Heights
Guide Grace	Flashlight	Monkey	Left-handed	Yellow Helmet	Water

CLUE 1 Rounding

The thief left a note split into block diagrams. To find out which pet the villain does not have, we need to compare the blocks to see the difference.

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



Round 5,338 to the nearest thousand → **T**

Round 616 to the nearest hundred → **O**

Round 79 to the nearest ten → **G**

Round 9,379 to the nearest thousand → **L**

Round 6,325 to the nearest thousand → **E**

Round 68 to the nearest ten → **N**

Round 182 to the nearest hundred → **H**

Round 835 to the nearest hundred → **Y**

Round 6,664 to the nearest thousand → **K**

Round 8,484 to the nearest thousand → **R**

Round 88 to the nearest ten → **S**

Round 379 to the nearest hundred → **D**

Round 3,071 to the nearest thousand → **A**

Round 17 to the nearest ten → **I**

Round 54 to the nearest ten → **V**

Scratch space:

CLUE 2

CLUE 3

A pile of golden coins is scattered on the jungle floor. Let us add them all up to see which fear scared the villain away!

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

Diagram illustrating the sequence of numbers and the placement of 'T' markers:

Row 1: 465 (T), 548, 873, 537, 924, 526, 526, 454, 924, 675, 918, 548, 924, 537, 873, 956, 873, 596, 454, 465 (T)

Row 2: 465 (T), 548, 873, 465 (T), 454, 526, 526, 339, 526, 924, 383, 383

$166 + 299 = \boxed{} \rightarrow \boxed{\mathbf{T}}$

$186 + 351 = \boxed{} \rightarrow \boxed{\mathbf{v}}$

$192 + 147 = \boxed{} \rightarrow \boxed{\text{C}}$

$$560 + 313 = \boxed{} \rightarrow \boxed{\text{E}}$$

$260 + 123 = \boxed{} \rightarrow \boxed{\text{F}}$

$447 + 509 = \boxed{} \rightarrow \boxed{\text{R}}$

$$460 + 464 = \boxed{} \rightarrow \boxed{\text{I}}$$

$551 + 367 = \boxed{} \rightarrow \boxed{\text{S}}$

$$252 + 202 = \boxed{} \rightarrow \boxed{\text{A}}$$

$258 + 338 = \boxed{} \rightarrow \boxed{\mathbf{D}}$

$$215 + 333 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$274 + 252 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$280 + 395 = \boxed{} \rightarrow \boxed{\mathbf{N}}$$

Scratch space:

CLUE 4 Subtraction

We found footprints leading into the bushes. By subtracting the old tracks from the new ones, we can find out what kind of hat the thief wore!

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

W															
209	562	597	156	114	311	605	190	754	588	562	562	311	381	190	141

749	141	588	190	555	156	311	190	556	588	190	311	703	381

$334 - 125 = \square \rightarrow \boxed{\text{W}}$

$350 - 194 = \square \rightarrow \boxed{\text{O}}$

$943 - 381 = \square \rightarrow \boxed{\text{E}}$

$949 - 200 = \square \rightarrow \boxed{\text{S}}$

$1039 - 336 = \square \rightarrow \boxed{\text{C}}$

$308 - 118 = \square \rightarrow \boxed{\text{A}}$

$865 - 310 = \square \rightarrow \boxed{\text{P}}$

$622 - 241 = \square \rightarrow \boxed{\text{H}}$

$365 - 224 = \square \rightarrow \boxed{\text{T}}$

$183 - 69 = \square \rightarrow \boxed{\text{U}}$

$698 - 101 = \square \rightarrow \boxed{\text{F}}$

$507 - 196 = \square \rightarrow \boxed{\text{N}}$

$1141 - 387 = \square \rightarrow \boxed{\text{G}}$

$961 - 373 = \square \rightarrow \boxed{\text{R}}$

$826 - 270 = \square \rightarrow \boxed{\text{B}}$

$698 - 93 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

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

The suspect left behind some heavy supplies. If we divide them into equal packs for our team, we will uncover the final clue to solve this jungle mystery!

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:

$48 \div 8 = \boxed{}$

$132 \div 12 = \boxed{}$

$21 \div 7 = \boxed{}$

$63 \div 9 = \boxed{}$

$25 \div 5 = \boxed{}$

$9 \div 9 = \boxed{}$

$84 \div 7 = \boxed{}$

$108 \div 12 = \boxed{}$

$110 \div 11 = \boxed{}$

$24 \div 6 = \boxed{}$

$88 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain swung through the trees with a hook, then shared a banana with a loud parrot.
2. The villain lit up the dark ancient cave, then blended in with a sneaky chameleon.
3. The villain checked the dial for north, then blended in with a sneaky chameleon.
4. The villain checked the dial for north, then escaped with a playful monkey.
5. The villain spied the treasure from afar, then shared a banana with a loud parrot.
6. The villain chopped through the thick vines, then shared a banana with a loud parrot.
7. The villain swung through the trees with a hook, then blended in with a sneaky chameleon.
8. The villain chopped through the thick vines, then hopped over logs with a green tree frog.
9. The villain chopped through the thick vines, then escaped with a playful monkey.
10. The villain swung through the trees with a hook, then hopped over logs with a green tree frog.
11. The villain spied the treasure from afar, then hopped over logs with a green tree frog.
12. The villain checked the dial for north, then patted a friendly baby tiger.

Answer Key

The Golden Beetle of Castaway Cove

Culprit: Explorer Jane

Flashlight · Chameleon · Right-handed · Green Pith Hat · Heights

Trail: Start 21 → Clue 1 18 → Clue 2 14 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SNEAKY VILLAIN DOES NOT HAVE A TIGER"

Round 5,338 to the nearest thousand = 5000 (T) · Round 616 to the nearest hundred = 600 (O) · Round 79 to the nearest ten = 80 (G) · Round 9,379 to the nearest thousand = 9000 (L) · Round 6,325 to the nearest thousand = 6000 (E) · Round 68 to the nearest ten = 70 (N) · Round 182 to the nearest hundred = 200 (H) · Round 835 to the nearest hundred = 800 (Y) · Round 6,664 to the nearest thousand = 7000 (K) · Round 8,484 to the nearest thousand = 8000 (R) · Round 88 to the nearest ten = 90 (S) · Round 379 to the nearest hundred = 400 (D) · Round 3,071 to the nearest thousand = 3000 (A) · Round 17 to the nearest ten = 20 (I) · Round 54 to the nearest ten = 50 (V)

Clue 2 (Bar model word problems): "RIGHT HANDED"

There were 35 jungle bananas in all. 6 jungle bananas were used. How many jungle bananas are left? = 29 (R) · Monkey helper has 2 times as many shiny beetles as a teammate. The teammate has 3 shiny beetles. How many shiny beetles does monkey helper have? = 6 (I) · Monkey helper has 6 times as many jungle bananas as a teammate. The teammate has 8 jungle bananas. How many jungle bananas does monkey helper have? = 48 (N) · Monkey helper has 72 golden coins, packed 8 to a bag. How many bags can be filled? = 9 (G) · The red team has 77 golden coins and the blue team has 36 golden coins. How many more golden coins does the red team have? = 41 (T) · The red team has 16 golden coins and the blue team has 2 golden coins. How many more golden coins does the red team have? = 14 (H) · The red team has 56 ancient maps and the blue team has 33 ancient maps. How many more ancient maps does the red team have? = 23 (A)

Clue 3 (Addition): "THE VILLAIN SHIVERED AT THE TALL CLIFF"

$166 + 299 = 465$ (T) · $186 + 351 = 537$ (V) · $192 + 147 = 339$ (C) · $560 + 313 = 873$ (E) · $260 + 123 = 383$ (F) · $447 + 509 = 956$ (R) · $460 + 464 = 924$ (I) · $551 + 367 = 918$ (S) · $252 + 202 = 454$ (A) · $258 + 338 = 596$ (D) · $215 + 333 = 548$ (H) · $274 + 252 = 526$ (L) · $280 + 395 = 675$ (N)

Clue 4 (Subtraction): "WE FOUND A GREEN HAT STRAP ON A BRANCH"

$334 - 125 = 209$ (W) · $350 - 194 = 156$ (O) · $943 - 381 = 562$ (E) · $949 - 200 = 749$ (S) · $1039 - 336 = 703$ (C) · $308 - 118 = 190$ (A) · $865 - 310 = 555$ (P) · $622 - 241 = 381$ (H) · $365 - 224 = 141$ (T) · $183 - 69 = 114$ (U) · $698 - 101 = 597$ (F) · $507 - 196 = 311$ (N) · $1141 - 387 = 754$ (G) · $961 - 373 = 588$ (R) · $826 - 270 = 556$ (B) · $698 - 93 = 605$ (D)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Explorer Jane

$48 \div 8 = 6$ · $132 \div 12 = 11$ · $21 \div 7 = 3$ · $63 \div 9 = 7$ · $25 \div 5 = 5$ · $9 \div 9 = 1$ · $84 \div 7 = 12$ · $108 \div 12 = 9$ · $110 \div 11 = 10$ · $24 \div 6 = 4$ · $88 \div 11 = 8$