The Mystery of Jaguar Isle

Grade 4 math · Fractions of a number, Rounding, Addition, Subtraction · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone snuck into the camp headquarters and took the ancient Golden Jaguar Idol! The Junior Explorers must analyze the evidence left behind and figure out who did 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 Shadow Bandit is _____

Possible suspects

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

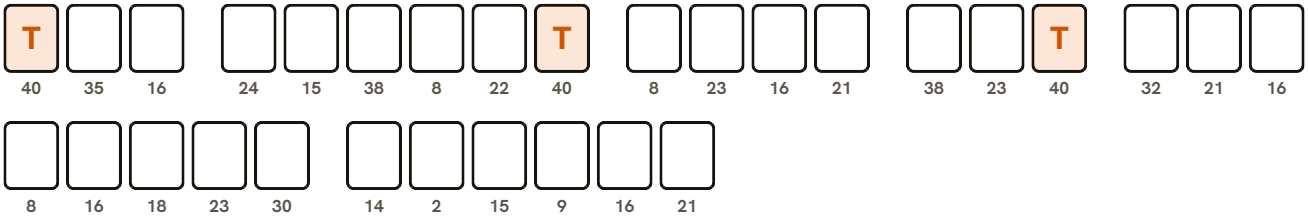
NAME	MAIN TOOL	GADGET	DOMINANT HAND	HAIR STYLE	SECRET WEAKNESS
Sienna West	Sonar Whistle	Camo Netting	Right-handed	Curly Hair	Squeaky Toy
Tara Gomez	Glow Compass	Zip Cord	Left-handed	Braided Hair	Squeaky Toy
Caleb Knight	Smoke Bombs	Laser Torch	Left-handed	Spiky Hair	Flashlight
Chloe Wilde	Grappling Hook	Decoy Flare	Left-handed	Braided Hair	Squeaky Toy
Jax Miller	Sonar Whistle	Laser Torch	Left-handed	Curly Hair	Squeaky Toy
Mia Chang	Sonar Whistle	Zip Cord	Right-handed	Braided Hair	Squeaky Toy
Ella Frost	Smoke Bombs	Decoy Flare	Left-handed	Curly Hair	Flashlight
Owen Drake	Smoke Bombs	Laser Torch	Left-handed	Braided Hair	Loud Bell
Luke Santos	Grappling Hook	Camo Netting	Left-handed	Braided Hair	Squeaky Toy
Finn Connor	Glider Suit	Zip Cord	Right-handed	Spiky Hair	Loud Bell
Eli Thorn	Glow Compass	Rocket Boots	Left-handed	Spiky Hair	Loud Bell
Ava Sterling	Sonar Whistle	Laser Torch	Left-handed	Curly Hair	Flashlight
Zoe Vance	Glider Suit	Laser Torch	Left-handed	Curly Hair	Flashlight
Mason Reed	Sonar Whistle	Zip Cord	Right-handed	Spiky Hair	Flashlight
Lila Finch	Glider Suit	Zip Cord	Right-handed	Curly Hair	Flashlight
Ivy Rhodes	Sonar Whistle	Rocket Boots	Left-handed	Braided Hair	Squeaky Toy
Sam Rivera	Smoke Bombs	Camo Netting	Right-handed	Braided Hair	Flashlight
Ruby Hayes	Glow Compass	Camo Netting	Left-handed	Braided Hair	Squeaky Toy
Noah Mercer	Grappling Hook	Camo Netting	Right-handed	Braided Hair	Squeaky Toy
Kai Bennett	Sonar Whistle	Zip Cord	Left-handed	Spiky Hair	Squeaky Toy
Cole Hunter	Sonar Whistle	Decoy Flare	Left-handed	Braided Hair	Flashlight

make your own at mathcrackers.com

CLUE 1 Fractions of a number

> We found a bundle of trail notes, but only a fraction of them belong to the bandit.

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



5/10 of 80 = ☐ → **T**

7/10 of 20 = ☐ → **F**

4/8 of 4 = ☐ → **L**

4/8 of 48 = ☐ → **B**

1/5 of 40 = ☐ → **D**

3/5 of 50 = ☐ → **Y**

1/10 of 150 = ☐ → **A**

9/10 of 20 = ☐ → **C**

2/4 of 70 = ☐ → **H**

2/8 of 84 = ☐ → **S**

2/10 of 190 = ☐ → **N**

1/3 of 66 = ☐ → **I**

1/8 of 128 = ☐ → **E**

2/10 of 115 = ☐ → **O**

6/10 of 15 = ☐ → **R**

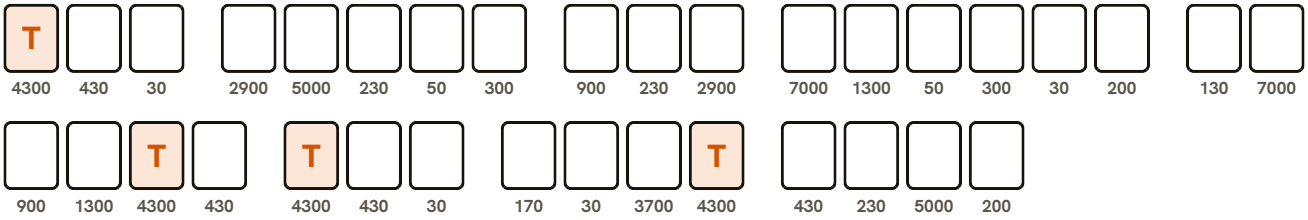
2/4 of 64 = ☐ → **U**

Scratch space:

CLUE 2 Rounding

The tracking scanner shows distance estimates rounded to the nearest ten meters.

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



Round 4,321 to the nearest hundred ☐ → T

Round 199 to the nearest hundred ☐ → D

Round 2,915 to the nearest hundred ☐ → S

Round 3,662 to the nearest hundred ☐ → F

Round 129 to the nearest ten ☐ → U

Round 28 to the nearest ten ☐ → E

Round 941 to the nearest hundred ☐ → W

Round 46 to the nearest ten ☐ → C

Round 321 to the nearest hundred ☐ → K

Round 432 to the nearest ten ☐ → H

Round 4,902 to the nearest thousand ☐ → N

Round 228 to the nearest ten ☐ → A

Round 6,791 to the nearest thousand ☐ → P

Round 174 to the nearest ten ☐ → L

Round 1,256 to the nearest hundred ☐ → I

Scratch space:

CLUE 3

Addition

We tallied all the gear supplies left behind by the camp boundary to get a total count.

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



2546 + 2375 = ☐ → T

3002 + 1371 = ☐ → U

4202 + 4386 = ☐ → A

2240 + 1923 = ☐ → Q

2734 + 6026 = ☐ → S

2568 + 5409 = ☐ → O

2988 + 6259 = ☐ → D

2233 + 3105 = ☐ → K

4830 + 4081 = ☐ → N

6245 + 2938 = ☐ → E

1633 + 2498 = ☐ → Y

1495 + 948 = ☐ → H

2750 + 4218 = ☐ → C

1499 + 1712 = ☐ → B

3249 + 4935 = ☐ → R

3446 + 3312 = ☐ → I

Scratch space:

CLUE 4 Subtraction

We subtracted the missing flashlights from the main trunk to see how many remained.

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



5386 - 1438 = ☐ → **B**

9336 - 753 = ☐ → **U**

2353 - 1066 = ☐ → **T**

5221 - 3069 = ☐ → **E**

5614 - 684 = ☐ → **O**

12217 - 4065 = ☐ → **H**

7000 - 1191 = ☐ → **S**

3992 - 991 = ☐ → **A**

5399 - 17 = ☐ → **W**

4695 - 1179 = ☐ → **I**

9016 - 4571 = ☐ → **F**

4172 - 1797 = ☐ → **R**

10186 - 1897 = ☐ → **N**

6242 - 3102 = ☐ → **D**

Scratch space:

CLUE 5 Fractions of a number - the last clue

Only a fraction of the gold medals stored in the trophy case were taken.

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:

1/5 of 40 = ☐ | 1/10 of 30 = ☐ | 4/6 of 18 = ☐ | 2/6 of 6 = ☐

2/3 of 6 = ☐ | 4/8 of 10 = ☐ | 2/8 of 24 = ☐ | 1/4 of 40 = ☐ | 1/8 of 8 = ☐

1/5 of 35 = ☐ | 5/10 of 22 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain called wild birds with a sonar whistle, then zipped down the ravine with a zip cord.
2. The villain called wild birds with a sonar whistle, then distracted guards with a decoy flare.
3. The villain swung across the camp on a grappling hook, then hid in the bushes under camo netting.
4. The villain called wild birds with a sonar whistle, then melted the lock using a laser torch.
5. The villain swung across the camp on a grappling hook, then zipped down the ravine with a zip cord.
6. The villain vanished into a cloud of smoke bombs, then escaped up the hill using rocket boots.
7. The villain vanished into a cloud of smoke bombs, then distracted guards with a decoy flare.
8. The villain guided their way with a glow compass, then hid in the bushes under camo netting.
9. The villain guided their way with a glow compass, then zipped down the ravine with a zip cord.
10. The villain vanished into a cloud of smoke bombs, then melted the lock using a laser torch.
11. The villain soared over the trees in a glider suit, then melted the lock using a laser torch.
12. The villain called wild birds with a sonar whistle, then escaped up the hill using rocket boots.

TEACHER / PARENT

Answer Key

The Mystery of Jaguar Isle

Culprit: Tara Gomez

Glow Compass · Zip Cord · Left-handed · Braided Hair · Squeaky Toy

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

Clue 1 (Fractions of a number): "THE BANDIT DOES NOT USE DECOY FLARES"

5/10 of 80 = 40 (T) · 7/10 of 20 = 14 (F) · 4/8 of 4 = 2 (L) · 4/8 of 48 = 24 (B) · 1/5 of 40 = 8 (D) · 3/5 of 50 = 30 (Y) · 1/10 of 150 = 15 (A) · 9/10 of 20 = 18 (C) · 2/4 of 70 = 35 (H) · 2/8 of 84 = 21 (S) · 2/10 of 190 = 38 (N) · 1/3 of 66 = 22 (I) · 1/8 of 128 = 16 (E) · 2/10 of 115 = 23 (O) · 6/10 of 15 = 9 (R) · 2/4 of 64 = 32 (U)

Clue 2 (Rounding): "THE SNACK WAS PICKED UP WITH THE LEFT HAND"

Round 4,321 to the nearest hundred = 4300 (T) · Round 199 to the nearest hundred = 200 (D) · Round 2,915 to the nearest hundred = 2900 (S) · Round 3,662 to the nearest hundred = 3700 (F) · Round 129 to the nearest ten = 130 (U) · Round 28 to the nearest ten = 30 (E) · Round 941 to the nearest hundred = 900 (W) · Round 46 to the nearest ten = 50 (C) · Round 321 to the nearest hundred = 300 (K) · Round 432 to the nearest ten = 430 (H) · Round 4,902 to the nearest thousand = 5000 (N) · Round 228 to the nearest ten = 230 (A) · Round 6,791 to the nearest thousand = 7000 (P) · Round 174 to the nearest ten = 170 (L) · Round 1,256 to the nearest hundred = 1300 (I)

Clue 3 (Addition): "THE SQUEAKY TOY DISTRACTED THE BANDIT"

2546 + 2375 = 4921 (T) · 3002 + 1371 = 4373 (U) · 4202 + 4386 = 8588 (A) · 2240 + 1923 = 4163 (Q) · 2734 + 6026 = 8760 (S) · 2568 + 5409 = 7977 (O) · 2988 + 6259 = 9247 (D) · 2233 + 3105 = 5338 (K) · 4830 + 4081 = 8911 (N) · 6245 + 2938 = 9183 (E) · 1633 + 2498 = 4131 (Y) · 1495 + 948 = 2443 (H) · 2750 + 4218 = 6968 (C) · 1499 + 1712 = 3211 (B) · 3249 + 4935 = 8184 (R) · 3446 + 3312 = 6758 (I)

Clue 4 (Subtraction): "BRAIDED HAIR STRANDS WERE FOUND INSIDE"

5386 - 1438 = 3948 (B) · 9336 - 753 = 8583 (U) · 2353 - 1066 = 1287 (T) · 5221 - 3069 = 2152 (E) · 5614 - 684 = 4930 (O) · 12217 - 4065 = 8152 (H) · 7000 - 1191 = 5809 (S) · 3992 - 991 = 3001 (A) · 5399 - 17 = 5382 (W) · 4695 - 1179 = 3516 (I) · 9016 - 4571 = 4445 (F) · 4172 - 1797 = 2375 (R) · 10186 - 1897 = 8289 (N) · 6242 - 3102 = 3140 (D)

Clue 5 (Fractions of a number): surviving statement is box 9 → Tara Gomez

1/5 of 40 = 8 · 1/10 of 30 = 3 · 4/6 of 18 = 12 · 2/6 of 6 = 2 · 2/3 of 6 = 4 · 4/8 of 10 = 5 · 2/8 of 24 = 6 · 1/4 of 40 = 10 · 1/8 of 8 = 1 · 1/5 of 35 = 7 · 5/10 of 22 = 11