



The Golden Idol Adventure

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

Detective: _____ **Date:** _____

The golden monkey idol has been snatched from the camp tent! Our team of Junior Explorers must search the island, solve clues, and identify the jungle bandit before they sail away.

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 jungle bandit 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	SPECIAL GEAR	WRITING STYLE	HEADWEAR COLOR	SECRET FEAR
Mia	camo cloak	snorkel	uses left hand to write	blue headband	dislikes loud parrot squawks
Leo	speed boots	decoder ring	uses left hand to write	muddy safari cap	afraid of tiny spiders
Cole	lasso of vines	decoder ring	uses left hand to write	muddy safari cap	afraid of tiny spiders
Chloe	lasso of vines	snorkel	uses left hand to write	bright red hat	afraid of tiny spiders
Ben	sonar compass	grappling hook	uses right hand to write	bright red hat	allergic to jungle flowers
Maya	camo cloak	night vision goggles	uses right hand to write	blue headband	dislikes loud parrot squawks
Zoe	climbing claws	snorkel	uses right hand to write	muddy safari cap	afraid of tiny spiders
Noah	camo cloak	jetpack	uses right hand to write	bright red hat	afraid of tiny spiders
Lily	speed boots	jetpack	uses right hand to write	blue headband	dislikes loud parrot squawks
Ava	sonar compass	decoder ring	uses left hand to write	bright red hat	allergic to jungle flowers
Toby	speed boots	jetpack	uses right hand to write	muddy safari cap	afraid of tiny spiders
Jack	climbing claws	snorkel	uses left hand to write	bright red hat	allergic to jungle flowers
Finn	climbing claws	snorkel	uses left hand to write	muddy safari cap	afraid of tiny spiders
Owen	lasso of vines	grappling hook	uses left hand to write	bright red hat	dislikes loud parrot squawks
Luke	lasso of vines	decoder ring	uses right hand to write	blue headband	dislikes loud parrot squawks
Ella	camo cloak	snorkel	uses left hand to write	muddy safari cap	afraid of tiny spiders
Sam	climbing claws	jetpack	uses right hand to write	blue headband	allergic to jungle flowers
Emma	speed boots	jetpack	uses right hand to write	blue headband	afraid of tiny spiders
Max	speed boots	night vision goggles	uses left hand to write	muddy safari cap	afraid of tiny spiders
Zack	camo cloak	jetpack	uses left hand to write	muddy safari cap	allergic to jungle flowers
Indy	camo cloak	grappling hook	uses left hand to write	bright red hat	afraid of tiny spiders

CLUE 1 Fractions of a number

Our Junior Explorers need to share their secret safari maps. We must calculate the exact fraction of maps for each camp to unlock the first radio channel!

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

Diagram illustrating a 3x10 grid of boxes. The boxes are arranged in three rows and ten columns. The top row contains 10 boxes, the middle row contains 10 boxes, and the bottom row contains 10 boxes. The boxes are numbered below them. The top row has boxes 33, 31, 34, 8, 29, 22, 12, 23, 33, 12, 38, 34, 16, 22, 38, 33, 40, 16, 34. The middle row has boxes 22, 23, 5, 31, 33, 3, 23, 16, 23, 38, 22, 5, 38, 5, 5, 2, 34, 16. The bottom row has boxes 22, 23, 5, 31, 33, 3, 23, 16, 23, 38, 22, 5, 38, 5, 5, 2, 34, 16. The boxes containing the letter 'T' are highlighted in orange.

$$6/10 \text{ of } 55 = \boxed{} \rightarrow \boxed{\text{T}}$$

5/10 of 68 = → **E**

4/6 of 12 = → **B**

4/10 of 40 = → **S**

$3/6$ of $58 = \boxed{} \rightarrow \boxed{\text{A}}$

$2/6$ of 120 = $\rightarrow$ **U**

$$2/3 \text{ of } 3 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$2/4 \text{ of } 44 = \boxed{} \rightarrow \boxed{\text{N}}$$

$\frac{1}{8}$ of 40 = $\rightarrow$ **G**

$\frac{1}{4}$ of 92 = $\rightarrow$

3/10 of 10 = → ☒ **V**

$\frac{1}{4}$ of 152 = $\rightarrow$

$2/8$ of 48 = $\rightarrow$ **D**

$$2/10 \text{ of } 155 = \boxed{} \rightarrow \boxed{\text{H}}$$

Scratch space:

CLUE 2 Rounding

A bumpy helicopter ride makes the altitude tracker wobble. Round the distance to the nearest ten meters to get a clean signal on the radar screen.

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

T																	
1300	130	500	90	2900	5000	230	20	1700	1300	70	20	700	230	230	500	70	9000
			T														
5000	500	1100	1300	130	9000	7000	70	500	70	370	9000	230					

Round 1,268 to the nearest hundred → **T**

Round 134 to the nearest ten → **H**

Round 4,648 to the nearest thousand → **L**

Round 2,903 to the nearest hundred → **U**

Round 1,129 to the nearest hundred → **F**

Round 233 to the nearest ten → **P**

Round 8,526 to the nearest thousand → **A**

Round 88 to the nearest ten → **C**

Round 670 to the nearest hundred → **O**

Round 66 to the nearest ten → **D**

Round 366 to the nearest ten → **M**

Round 6,717 to the nearest thousand → **N**

Round 1,702 to the nearest hundred → **I**

Round 23 to the nearest ten → **R**

Round 494 to the nearest hundred → **E**

Scratch space:

CLUE 3

Addition

We found footprints along the muddy riverbank. Tally up all the boot prints we counted in the mud to find the secret jungle path.

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

T																		
8157	4122	7648	5483	5240	6803	6890	3468	4886	9343	6281	7648	7648	6638	9343	3468	5240	5406	

T											
8157	7648	7648	4393	6586	6638	5934	6961	4886	7648	3468	6638

$5119 + 3038 = \square \rightarrow \boxed{\text{T}}$

$1873 + 3367 = \square \rightarrow \boxed{\text{O}}$

$4514 + 2447 = \square \rightarrow \boxed{\text{I}}$

$4603 + 1983 = \square \rightarrow \boxed{\text{Y}}$

$3523 + 1960 = \square \rightarrow \boxed{\text{C}}$

$2439 + 5209 = \square \rightarrow \boxed{\text{E}}$

$1995 + 3411 = \square \rightarrow \boxed{\text{M}}$

$3304 + 1582 = \square \rightarrow \boxed{\text{D}}$

$2308 + 1160 = \square \rightarrow \boxed{\text{R}}$

$2642 + 1751 = \square \rightarrow \boxed{\text{N}}$

$3283 + 2998 = \square \rightarrow \boxed{\text{L}}$

$2782 + 4108 = \square \rightarrow \boxed{\text{A}}$

$2843 + 1279 = \square \rightarrow \boxed{\text{H}}$

$2491 + 3443 = \square \rightarrow \boxed{\text{P}}$

$4094 + 5249 = \square \rightarrow \boxed{\text{F}}$

$3475 + 3328 = \square \rightarrow \boxed{\text{W}}$

$4556 + 2082 = \square \rightarrow \boxed{\text{S}}$

Scratch space:

CLUE 4

Subtraction

The water flasks are leaking on this hot trail. Subtract the spilled water from our total supply to see how much we have left for the trek.

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

W																	
7810	1374	8975	1263	5951	6378	6324	5749	5951	6324	6324	5281	1662	6449	8975	6449	8922	4283
6365	6449	6529	6324	5951	1662	5027	1263	6378	6449	1715	1374	6449	8975				

$11490 - 3680 = \square \rightarrow \text{W}$

$9212 - 3463 = \square \rightarrow \text{M}$

$4015 - 2353 = \square \rightarrow \text{S}$

$10634 - 4683 = \square \rightarrow \text{U}$

$8233 - 2952 = \square \rightarrow \text{Y}$

$3230 - 1856 = \square \rightarrow \text{E}$

$13330 - 4355 = \square \rightarrow \text{F}$

$8440 - 4157 = \square \rightarrow \text{I}$

$2480 - 765 = \square \rightarrow \text{L}$

$7707 - 1383 = \square \rightarrow \text{D}$

$7566 - 1037 = \square \rightarrow \text{P}$

$2540 - 1277 = \square \rightarrow \text{O}$

$9848 - 926 = \square \rightarrow \text{R}$

$6978 - 1951 = \square \rightarrow \text{T}$

$8123 - 1745 = \square \rightarrow \text{N}$

$10657 - 4292 = \square \rightarrow \text{C}$

$7091 - 642 = \square \rightarrow \text{A}$

Scratch space:

CLUE 5**Fractions of a number - the last clue**

The lock on the temple door requires a fraction of the gold coins to be placed in the tray. Solve the math to open the heavy stone gate.

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:

$3/4 \text{ of } 4 = \boxed{}$

$2/8 \text{ of } 8 = \boxed{}$

$2/6 \text{ of } 3 = \boxed{}$

$1/8 \text{ of } 64 = \boxed{}$

$4/8 \text{ of } 18 = \boxed{}$

$1/6 \text{ of } 66 = \boxed{}$

$2/6 \text{ of } 30 = \boxed{}$

$3/6 \text{ of } 8 = \boxed{}$

$2/5 \text{ of } 15 = \boxed{}$

$1/8 \text{ of } 56 = \boxed{}$

$5/10 \text{ of } 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sneaks past the sleeping monkey, then hides inside the hollow tree.
2. The villain crosses the rickety rope bridge, then zooms off on a mud bike.
3. The villain swings across the canyon, then zooms off on a mud bike.
4. The villain paddles down the rushing river, then flies away in a hot air balloon.
5. The villain crosses the rickety rope bridge, then escapes in a yellow jeep.
6. The villain swings across the canyon, then dives into the secret lagoon.
7. The villain decodes the secret stone wall, then flies away in a hot air balloon.
8. The villain crosses the rickety rope bridge, then dives into the secret lagoon.
9. The villain sneaks past the sleeping monkey, then dives into the secret lagoon.
10. The villain decodes the secret stone wall, then zooms off on a mud bike.
11. The villain crosses the rickety rope bridge, then flies away in a hot air balloon.
12. The villain paddles down the rushing river, then hides inside the hollow tree.

Answer Key

The Golden Idol Adventure

Culprit: Cole

lasso of vines · decoder ring · uses left hand to write · muddy safari cap · afraid of tiny spiders

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

Clue 1 (Fractions of a number): "THE BANDIT DOES NOT USE NIGHT VISION GOGGLES"

$6/10$ of 55 = 33 (T) · $5/10$ of 68 = 34 (E) · $4/6$ of 12 = 8 (B) · $4/10$ of 40 = 16 (S) · $3/6$ of 58 = 29 (A) · $2/6$ of 120 = 40 (U) · $2/3$ of 3 = 2 (L) · $2/4$ of 44 = 22 (N) · $1/8$ of 40 = 5 (G) · $1/4$ of 92 = 23 (I) · $3/10$ of 10 = 3 (V) · $1/4$ of 152 = 38 (O) · $2/8$ of 48 = 12 (D) · $2/10$ of 155 = 31 (H)

Clue 2 (Rounding): "THE CULPRIT DROPPED A LEFT HANDED MAP"

Round 1,268 to the nearest hundred = 1300 (T) · Round 134 to the nearest ten = 130 (H) · Round 4,648 to the nearest thousand = 5000 (L) · Round 2,903 to the nearest hundred = 2900 (U) · Round 1,129 to the nearest hundred = 1100 (F) · Round 233 to the nearest ten = 230 (P) · Round 8,526 to the nearest thousand = 9000 (A) · Round 88 to the nearest ten = 90 (C) · Round 670 to the nearest hundred = 700 (O) · Round 66 to the nearest ten = 70 (D) · Round 366 to the nearest ten = 370 (M) · Round 6,717 to the nearest thousand = 7000 (N) · Round 1,702 to the nearest hundred = 1700 (I) · Round 23 to the nearest ten = 20 (R) · Round 494 to the nearest hundred = 500 (E)

Clue 3 (Addition): "THE COWARD FLEES FROM TEENY SPIDERS"

$5119 + 3038 = 8157$ (T) · $1873 + 3367 = 5240$ (O) · $4514 + 2447 = 6961$ (I) · $4603 + 1983 = 6586$ (Y) · $3523 + 1960 = 5483$ (C) · $2439 + 5209 = 7648$ (E) · $1995 + 3411 = 5406$ (M) · $3304 + 1582 = 4886$ (D) · $2308 + 1160 = 3468$ (R) · $2642 + 1751 = 4393$ (N) · $3283 + 2998 = 6281$ (L) · $2782 + 4108 = 6890$ (A) · $2843 + 1279 = 4122$ (H) · $2491 + 3443 = 5934$ (P) · $4094 + 5249 = 9343$ (F) · $3475 + 3328 = 6803$ (W) · $4556 + 2082 = 6638$ (S)

Clue 4 (Subtraction): "WE FOUND MUDDY SAFARI CAP DUST ON A LEAF"

$11490 - 3680 = 7810$ (W) · $9212 - 3463 = 5749$ (M) · $4015 - 2353 = 1662$ (S) · $10634 - 4683 = 5951$ (U) · $8233 - 2952 = 5281$ (Y) · $3230 - 1856 = 1374$ (E) · $13330 - 4355 = 8975$ (F) · $8440 - 4157 = 4283$ (I) · $2480 - 765 = 1715$ (L) · $7707 - 1383 = 6324$ (D) · $7566 - 1037 = 6529$ (P) · $2540 - 1277 = 1263$ (O) · $9848 - 926 = 8922$ (R) · $6978 - 1951 = 5027$ (T) · $8123 - 1745 = 6378$ (N) · $10657 - 4292 = 6365$ (C) · $7091 - 642 = 6449$ (A)

Clue 5 (Fractions of a number): surviving statement is box 12 → Cole

$3/4$ of 4 = 3 · $2/8$ of 8 = 2 · $2/6$ of 3 = 1 · $1/8$ of 64 = 8 · $4/8$ of 18 = 9 · $1/6$ of 66 = 11 · $2/6$ of 30 = 10 · $3/6$ of 8 = 4 · $2/5$ of 15 = 6 · $1/8$ of 56 = 7 · $5/10$ of 10 = 5