



The Lizard Lounge Looting

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

Detective: _____ Date: _____

Oh no! Someone took the Golden Ukulele trophy from the Lizard Lounge! The thief left behind reptile tracks, basketball scuffs, and a weird video game controller. We must find the sneaky culprit!

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 Scales Sneaker is _____

Possible suspects

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

NAME	GAMING MOVE	REPTILE GEAR	SHOOTING STANCE	GAMER HEADWEAR	DISTRACTION TOY
Steve	chameleon camo blend	poison dart frog armor	right handed throw	spiky blue hair	out of tune ukulele
Lizard Larry	chameleon camo blend	pixelated fire spikes	left handed throw	lizard scale helmet	out of tune ukulele
Kobe	button mash speed run	pixelated fire spikes	right handed throw	neon green headband	out of tune ukulele
Grace	slam dunk sonic boom	poison dart frog armor	left handed throw	spiky blue hair	squeaky toy basketball
Luigi	gecko wall crawl	sonic ukulele shield	left handed throw	lizard scale helmet	out of tune ukulele
Gamer Gary	slam dunk sonic boom	sonic ukulele shield	left handed throw	spiky blue hair	out of tune ukulele
Jake	pixel dash teleport	elastic iguana tongue	left handed throw	lizard scale helmet	squeaky toy basketball
Bindi	chameleon camo blend	pixelated fire spikes	right handed throw	lizard scale helmet	out of tune ukulele
Tiny	pixel dash teleport	poison dart frog armor	right handed throw	lizard scale helmet	out of tune ukulele
Giannis	pixel dash teleport	elastic iguana tongue	left handed throw	neon green headband	out of tune ukulele
Steph	slam dunk sonic boom	pixelated fire spikes	right handed throw	spiky blue hair	out of tune ukulele
Irwin	chameleon camo blend	poison dart frog armor	right handed throw	lizard scale helmet	squeaky toy basketball
Shaq	slam dunk sonic boom	glow in the dark scales	right handed throw	lizard scale helmet	out of tune ukulele
LeBron	chameleon camo blend	elastic iguana tongue	left handed throw	spiky blue hair	squeaky toy basketball
Spike	button mash speed run	pixelated fire spikes	right handed throw	lizard scale helmet	out of tune ukulele
Sue	button mash speed run	pixelated fire spikes	left handed throw	lizard scale helmet	squeaky toy basketball
Slam Dunky	button mash speed run	glow in the dark scales	right handed throw	spiky blue hair	out of tune ukulele
Candace	chameleon camo blend	elastic iguana tongue	right handed throw	spiky blue hair	strobe game light
Bowser	gecko wall crawl	pixelated fire spikes	right handed throw	lizard scale helmet	out of tune ukulele
Alex	gecko wall crawl	pixelated fire spikes	left handed throw	neon green headband	squeaky toy basketball
Uke Ukulele	chameleon camo blend	pixelated fire spikes	right handed throw	neon green headband	squeaky toy basketball

CLUE 1 Place value

We found a glowing gaming keypad by the snake cage. To open it, we must find the value of the digit in the tens place.

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

T			T											T				
800	600	500	800	600	9000	500	60	6000	20	500	80	200	20	800	600	70	4000	500
900	100	20	5000	80	30	70	100	500	80									

What is the value of the 8 in 6,875? → **T**

What is the value of the 5 in 45,714? → **W**

What is the value of the 8 in 187? → **S**

What is the value of the 2 in 626? → **O**

What is the value of the 7 in 871? → **A**

What is the value of the 3 in 436? → **C**

What is the value of the 5 in 570? → **E**

What is the value of the 1 in 9,155? → **L**

What is the value of the 6 in 46,434? → **D**

What is the value of the 6 in 621? → **H**

What is the value of the 6 in 267? → **F**

What is the value of the 9 in 940? → **G**

What is the value of the 2 in 254? → **N**

What is the value of the 9 in 9,271? → **I**

What is the value of the 4 in 4,865? → **V**

Scratch space:

CLUE 2
Multiplication facts (1-12)

The thief ran past the frog tanks. We can find the escape route by counting the total frogs in four rows of six tanks.

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

T																	
11	48	22	84	20	63	25	22	30	84	22	8	22	48	50	30	50	
				T							T						
20	63	12	48	11	64	108	50	30	4	22	11	108	50	24	24		
30	84	1	70	70													

$1 \times 11 = \square \rightarrow \text{T}$

$12 \times 1 = \square \rightarrow \text{G}$

$2 \times 11 = \square \rightarrow \text{E}$

$8 \times 8 = \square \rightarrow \text{Y}$

$3 \times 8 = \square \rightarrow \text{L}$

$7 \times 12 = \square \rightarrow \text{C}$

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

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

$2 \times 4 = \square \rightarrow \text{N}$

$7 \times 9 = \square \rightarrow \text{I}$

$2 \times 10 = \square \rightarrow \text{R}$

$1 \times 4 = \square \rightarrow \text{K}$

$9 \times 12 = \square \rightarrow \text{B}$

$10 \times 5 = \square \rightarrow \text{A}$

$5 \times 5 = \square \rightarrow \text{M}$

$10 \times 7 = \square \rightarrow \text{F}$

$5 \times 6 = \square \rightarrow \text{S}$

Scratch space:

CLUE 3 Rounding

A radar screen tracked the thief speed but only shows numbers rounded to the nearest ten. Let us estimate the real speed.

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

T					T			T				
9000	500	1300	3000	30	9000	3000	4300	9000	30	1100	1300	430

											T							
30	7000	30	290	1300	290	1300	900	130	7000	1300	700	9000	500	1300	900	110	30	1100

Round 8,943 to the nearest thousand →

T

Round 291 to the nearest ten →

L

Round 430 to the nearest ten →

D

Round 128 to the nearest ten →

A

Round 478 to the nearest hundred →

H

Round 913 to the nearest hundred →

M

Round 106 to the nearest ten →

R

Round 1,051 to the nearest hundred →

N

Round 6,977 to the nearest thousand →

K

Round 26 to the nearest ten →

U

Round 4,324 to the nearest hundred →

F

Round 1,278 to the nearest hundred →

E

Round 692 to the nearest hundred →

S

Round 3,437 to the nearest thousand →

O

Scratch space:

CLUE 4

The arena guards counted the basketballs left on the court. We must add the red ones and the blue ones to find the total.

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

2818 7580 7296 4175 9271 5727 6349 4175 3965 2818 6948 3419 7580 9703 2818 6349 4485

7296 4485 6349 8693 4485 8331 3134 2818 7580 3419 6948 4966 2293 2293 4485 3419

$$1066 + 1752 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$$2805 + 2161 = \boxed{} \rightarrow \boxed{0}$$

$$2578 + 3771 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$5641 + 3052 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$4649 + 5054 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$2055 + 2120 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$2672 + 1293 = \boxed{} \rightarrow \boxed{\mathbf{Z}}$$

$$4274 + 2674 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$3966 + 4365 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$2844 + 2883 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$3117 + 1368 = \boxed{} \rightarrow \boxed{\text{E}}$$

$$2555 + 4741 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$6311 + 2960 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$1317 + 1817 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$847 + 1446 = \boxed{} \rightarrow \boxed{\text{P}}$$

$$3964 + 3616 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$1413 + 2006 = \boxed{} \rightarrow \boxed{\text{D}}$$

Scratch space:

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

We need to feed some crickets to our pet geckos. If we divide twenty crickets equally among five geckos, how many does each get?

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:

$110 \div 11 = \boxed{}$

$60 \div 5 = \boxed{}$

$45 \div 9 = \boxed{}$

$21 \div 7 = \boxed{}$

$32 \div 4 = \boxed{}$

$10 \div 10 = \boxed{}$

$2 \div 1 = \boxed{}$

$22 \div 2 = \boxed{}$

$63 \div 9 = \boxed{}$

$9 \div 1 = \boxed{}$

$48 \div 8 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain performs a slam dunk sonic boom to shatter the glass, then grabs the golden prize with an elastic iguana tongue.
2. The villain performs a slam dunk sonic boom to shatter the glass, then blocks the guards with a sonic ukulele shield.
3. The villain performs a slam dunk sonic boom to shatter the glass, then deflects the trap nets with poison dart frog armor.
4. The villain uses a pixel dash teleport to bypass the lasers, then deflects the trap nets with poison dart frog armor.
5. The villain activates chameleon camo blend to fade into the walls, then blocks the doorway using pixelated fire spikes.
6. The villain does a gecko wall crawl to reach the high ceiling, then deflects the trap nets with poison dart frog armor.
7. The villain performs a slam dunk sonic boom to shatter the glass, then illuminates the dark vents with glow in the dark scales.
8. The villain does a gecko wall crawl to reach the high ceiling, then illuminates the dark vents with glow in the dark scales.
9. The villain does a gecko wall crawl to reach the high ceiling, then blocks the guards with a sonic ukulele shield.
10. The villain starts a button mash speed run to slip past the cameras, then blocks the doorway using pixelated fire spikes.
11. The villain activates chameleon camo blend to fade into the walls, then grabs the golden prize with an elastic iguana tongue.
12. The villain does a gecko wall crawl to reach the high ceiling, then blocks the doorway using pixelated fire spikes.

Answer Key

The Lizard Lounge Looting

Culprit: Tiny

pixel dash teleport · poison dart frog armor · right handed throw · lizard scale helmet · out of tune ukulele

Trail: Start 21 → Clue 1 19 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT HAVE GLOW SCALES"

What is the value of the 8 in 6,875? = 800 (T) · What is the value of the 5 in 45,714? = 5000 (W) · What is the value of the 8 in 187? = 80 (S) · What is the value of the 2 in 626? = 20 (O) · What is the value of the 7 in 871? = 70 (A) · What is the value of the 3 in 436? = 30 (C) · What is the value of the 5 in 570? = 500 (E) · What is the value of the 1 in 9,155? = 100 (L) · What is the value of the 6 in 46,434? = 6000 (D) · What is the value of the 6 in 621? = 600 (H) · What is the value of the 6 in 267? = 60 (F) · What is the value of the 9 in 940? = 900 (G) · What is the value of the 2 in 254? = 200 (N) · What is the value of the 9 in 9,271? = 9000 (I) · What is the value of the 4 in 4,865? = 4000 (V)

Clue 2 (Multiplication facts (1-12)): "THE CRIME SCENE HAS A RIGHTY BASKETBALL SCUFF"

$1 \times 11 = 11$ (T) · $12 \times 1 = 12$ (G) · $2 \times 11 = 22$ (E) · $8 \times 8 = 64$ (Y) · $3 \times 8 = 24$ (L) · $7 \times 12 = 84$ (C) · $4 \times 12 = 48$ (H) · $1 \times 1 = 1$ (U) · $2 \times 4 = 8$ (N) · $7 \times 9 = 63$ (I) · $2 \times 10 = 20$ (R) · $1 \times 4 = 4$ (K) · $9 \times 12 = 108$ (B) · $10 \times 5 = 50$ (A) · $5 \times 5 = 25$ (M) · $10 \times 7 = 70$ (F) · $5 \times 6 = 30$ (S)

Clue 3 (Rounding): "THE OUT OF TUNED UKULELE MAKES THEM RUN"

Round 8,943 to the nearest thousand = 9000 (T) · Round 291 to the nearest ten = 290 (L) · Round 430 to the nearest ten = 430 (D) · Round 128 to the nearest ten = 130 (A) · Round 478 to the nearest hundred = 500 (H) · Round 913 to the nearest hundred = 900 (M) · Round 106 to the nearest ten = 110 (R) · Round 1,051 to the nearest hundred = 1100 (N) · Round 6,977 to the nearest thousand = 7000 (K) · Round 26 to the nearest ten = 30 (U) · Round 4,324 to the nearest hundred = 4300 (F) · Round 1,278 to the nearest hundred = 1300 (E) · Round 692 to the nearest hundred = 700 (S) · Round 3,437 to the nearest thousand = 3000 (O)

Clue 4 (Addition): "A SHINY LIZARD SCALE HELMET WAS DROPPED"

$1066 + 1752 = 2818$ (A) · $2805 + 2161 = 4966$ (O) · $2578 + 3771 = 6349$ (L) · $5641 + 3052 = 8693$ (M) · $4649 + 5054 = 9703$ (C) · $2055 + 2120 = 4175$ (I) · $2672 + 1293 = 3965$ (Z) · $4274 + 2674 = 6948$ (R) · $3966 + 4365 = 8331$ (T) · $2844 + 2883 = 5727$ (Y) · $3117 + 1368 = 4485$ (E) · $2555 + 4741 = 7296$ (H) · $6311 + 2960 = 9271$ (N) · $1317 + 1817 = 3134$ (W) · $847 + 1446 = 2293$ (P) · $3964 + 3616 = 7580$ (S) · $1413 + 2006 = 3419$ (D)

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

$110 \div 11 = 10$ · $60 \div 5 = 12$ · $45 \div 9 = 5$ · $21 \div 7 = 3$ · $32 \div 4 = 8$ · $10 \div 10 = 1$ · $2 \div 1 = 2$ · $22 \div 2 = 11$ · $63 \div 9 = 7$ · $9 \div 1 = 9$ · $48 \div 8 = 6$