



The Whispering Canopy Mystery

Grade 6 math · Multiplication, Percentages, Exponents, Order of operations, Division · Reading level grades 3-4

Detective: _____ Date: _____

A rogue explorer has swiped the Golden Jaguar Statue from the jungle vault! The Whispering Canopy is full of traps. Use your math skills and clues to track down the thief before they escape.

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 rogue explorer is _____

Possible suspects

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

NAME	EXPLORER TOOL	ANIMAL COMPANION	HANDEDNESS	HAIR STYLE	JUNGLE FEAR
Hudson	mapping drone	scout parrot	uses left hand	messy spikes	sneezes at dust
Clara	climbing picks	pocket monkey	uses left hand	messy spikes	hates quicksand
Toby	laser flashlight	helper ferret	uses right hand	curly hair	hates quicksand
Marco	grappling hook	helper ferret	uses right hand	curly hair	hates quicksand
Lara	laser flashlight	trained falcon	uses left hand	curly hair	hates quicksand
Wyatt	climbing picks	scout parrot	uses right hand	curly hair	hates quicksand
Diego	grappling hook	scout parrot	uses left hand	braided ponytail	sneezes at dust
Finn	sonic whistle	mini chameleon	uses right hand	curly hair	hates quicksand
Sora	sonic whistle	scout parrot	uses right hand	curly hair	hates quicksand
Indy	mapping drone	mini chameleon	uses left hand	braided ponytail	hates quicksand
Pip	grappling hook	pocket monkey	uses left hand	curly hair	hates quicksand
Hazel	mapping drone	mini chameleon	uses left hand	messy spikes	sneezes at dust
Rex	mapping drone	mini chameleon	uses right hand	curly hair	hates quicksand
Zane	sonic whistle	trained falcon	uses right hand	braided ponytail	hates quicksand
Jack	sonic whistle	helper ferret	uses right hand	messy spikes	hates quicksand
Nellie	grappling hook	trained falcon	uses right hand	messy spikes	sneezes at dust
Milo	sonic whistle	pocket monkey	uses left hand	curly hair	afraid of spiders
Zora	mapping drone	pocket monkey	uses right hand	curly hair	afraid of spiders
Dora	mapping drone	helper ferret	uses right hand	curly hair	sneezes at dust
Sacagawea	sonic whistle	trained falcon	uses left hand	curly hair	afraid of spiders
Leo	sonic whistle	trained falcon	uses left hand	messy spikes	sneezes at dust

CLUE 1
Multiplication facts (1-12)

We find a crate of expedition supplies left behind. They are neatly arranged in rows. Let's multiply the rows and columns to count the pack of supplies and unlock the first clue!

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

T																		T
55	72	77	9	81	10	10	144	81	33	14	32	77	90	33	32	55		
																		T
72	144	9	77	144	72	77	10	11	77	88	36	77	88	88	77	55		

$11 \times 5 = \square \rightarrow \boxed{\text{T}}$

$11 \times 1 = \square \rightarrow \boxed{\text{P}}$

$4 \times 8 = \square \rightarrow \boxed{\text{O}}$

$2 \times 7 = \square \rightarrow \boxed{\text{D}}$

$4 \times 9 = \square \rightarrow \boxed{\text{F}}$

$9 \times 1 = \square \rightarrow \boxed{\text{V}}$

$7 \times 11 = \square \rightarrow \boxed{\text{E}}$

$5 \times 2 = \square \rightarrow \boxed{\text{L}}$

$11 \times 8 = \square \rightarrow \boxed{\text{R}}$

$12 \times 12 = \square \rightarrow \boxed{\text{A}}$

$10 \times 9 = \square \rightarrow \boxed{\text{S}}$

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

$6 \times 12 = \square \rightarrow \boxed{\text{H}}$

$11 \times 3 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

CLUE 2 Percentages

Our tracking device is losing power fast. The screen shows the battery percentage remaining. Solve this percentage puzzle to boost the signal and read the next clue!

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

T																	
5	13	14	37	18	41	13	5	13	21	40	2	14	2	41	37	18	8
19	21	45	6	31	9	40	2	31	40	5	13	14	37	31	8	14	

$50\% \text{ of } 10 = \square \rightarrow \text{T}$

$10\% \text{ of } 310 = \square \rightarrow \text{O}$

$10\% \text{ of } 90 = \square \rightarrow \text{U}$

$75\% \text{ of } 28 = \square \rightarrow \text{A}$

$10\% \text{ of } 20 = \square \rightarrow \text{D}$

$25\% \text{ of } 76 = \square \rightarrow \text{W}$

$10\% \text{ of } 400 = \square \rightarrow \text{N}$

$10\% \text{ of } 130 = \square \rightarrow \text{H}$

$5\% \text{ of } 280 = \square \rightarrow \text{E}$

$60\% \text{ of } 75 = \square \rightarrow \text{S}$

$60\% \text{ of } 30 = \square \rightarrow \text{I}$

$5\% \text{ of } 160 = \square \rightarrow \text{P}$

$50\% \text{ of } 12 = \square \rightarrow \text{F}$

$25\% \text{ of } 164 = \square \rightarrow \text{G}$

$25\% \text{ of } 148 = \square \rightarrow \text{R}$

Scratch space:

CLUE 3 Exponents

We reach a giant stone door locked by a code. The number of paths doubles at every step we take. Solve this exponent riddle to find the right path and open the door!

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

T			T															
225	324	32	225	324	25	32	343	196	256	243	32	343	216	169	169	81		
							T											
256	121	128	25	27	32	27	225	324	32	125	216	25	196	9	4	256	8	27

$15^2 = \square \rightarrow$ T	$3^3 = \square \rightarrow$ D	$3^4 = \square \rightarrow$ Y	$14^2 = \square \rightarrow$ C
$2^2 = \square \rightarrow$ S	$11^2 = \square \rightarrow$ V	$7^3 = \square \rightarrow$ F	$13^2 = \square \rightarrow$ L
$2^3 = \square \rightarrow$ N	$2^8 = \square \rightarrow$ A	$6^3 = \square \rightarrow$ U	$3^2 = \square \rightarrow$ K
$2^7 = \square \rightarrow$ O	$2^5 = \square \rightarrow$ E	$18^2 = \square \rightarrow$ H	$3^5 = \square \rightarrow$ R
$5^2 = \square \rightarrow$ I	$5^3 = \square \rightarrow$ Q		

Scratch space:

CLUE 4
Order of operations

There is a bridge of ancient stepping stones ahead. We must step on the stones in the exact correct mathematical order to cross safely and grab the clue!

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

C																			
80	25	66	67	18	70	50	66	7	64	39	70	68	63	66	63	67	63	72	50
73	64	50	78	63	70	50	73	64	63	68	7	67	67						

$10 \times 10 - 20 = \square \rightarrow \boxed{\text{C}}$

$8 \times 11 - 25 = \square \rightarrow \boxed{\text{E}}$

$9 \times 10 - 20 = \square \rightarrow \boxed{\text{S}}$

$10 \times 9 - 23 = \square \rightarrow \boxed{\text{L}}$

$2 + 2 \times 8 = \square \rightarrow \boxed{\text{Y}}$

$8 \times 10 - 14 = \square \rightarrow \boxed{\text{R}}$

$8 \times 8 - 25 = \square \rightarrow \boxed{\text{D}}$

$1 + 8 \times 3 = \square \rightarrow \boxed{\text{U}}$

$8 \times 11 - 10 = \square \rightarrow \boxed{\text{H}}$

$1 + 2 \times 3 = \square \rightarrow \boxed{\text{A}}$

$8 \times 10 - 12 = \square \rightarrow \boxed{\text{W}}$

$51 + 7 \times 3 = \square \rightarrow \boxed{\text{F}}$

$9 \times 10 - 17 = \square \rightarrow \boxed{\text{O}}$

$35 + 5 \times 3 = \square \rightarrow \boxed{\text{T}}$

$12 \times 7 - 20 = \square \rightarrow \boxed{\text{N}}$

Scratch space:

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

We have a bunch of survival rations to split among our team. If we divide the food packages equally, we can unlock the final clue hidden inside the ration box!

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:

$60 \div 5 = \boxed{}$

$35 \div 5 = \boxed{}$

$6 \div 6 = \boxed{}$

$12 \div 3 = \boxed{}$

$9 \div 1 = \boxed{}$

$70 \div 7 = \boxed{}$

$15 \div 5 = \boxed{}$

$18 \div 3 = \boxed{}$

$30 \div 6 = \boxed{}$

$33 \div 3 = \boxed{}$

$24 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scouts the high canopy with a mapping drone, then uses a mini chameleon to distract the guards.
2. The villain blasts a sonic whistle to clear a path, then uses a mini chameleon to distract the guards.
3. The villain scouts the high canopy with a mapping drone, then sends a trained falcon to snatch the loot.
4. The villain blasts a sonic whistle to clear a path, then sends a trained falcon to snatch the loot.
5. The villain scales the muddy cliffside with climbing picks, then sends a trained falcon to snatch the loot.
6. The villain lights up the dark cave with a laser flashlight, then lets a pocket monkey grab the treasure keys.
7. The villain scales the muddy cliffside with climbing picks, then has a scout parrot screech out warnings.
8. The villain lights up the dark cave with a laser flashlight, then has a scout parrot screech out warnings.
9. The villain scouts the high canopy with a mapping drone, then sends a helper ferret down the narrow tunnel.
10. The villain blasts a sonic whistle to clear a path, then lets a pocket monkey grab the treasure keys.
11. The villain scales the muddy cliffside with climbing picks, then sends a helper ferret down the narrow tunnel.
12. The villain blasts a sonic whistle to clear a path, then has a scout parrot screech out warnings.

Answer Key

The Whispering Canopy Mystery

Culprit: Finn

sonic whistle · mini chameleon · uses right hand · curly hair · hates quicksand

Trail: Start 21 → Clue 1 17 → Clue 2 7 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT HAVE A HELPER FERRET"

$11 \times 5 = 55$ (T) · $11 \times 1 = 11$ (P) · $4 \times 8 = 32$ (O) · $2 \times 7 = 14$ (D) · $4 \times 9 = 36$ (F) · $9 \times 1 = 9$ (V) · $7 \times 11 = 77$ (E) · $5 \times 2 = 10$ (L) · $11 \times 8 = 88$ (R) · $12 \times 12 = 144$ (A) · $10 \times 9 = 90$ (S) · $9 \times 9 = 81$ (I) · $6 \times 12 = 72$ (H) · $11 \times 3 = 33$ (N)

Clue 2 (Percentages): "THE RIGHT HANDED GRIP WAS FOUND ON THE ROPE"

50% of 10 = 5 (T) · 10% of 310 = 31 (O) · 10% of 90 = 9 (U) · 75% of 28 = 21 (A) · 10% of 20 = 2 (D) · 25% of 76 = 19 (W) · 10% of 400 = 40 (N) · 10% of 130 = 13 (H) · 5% of 280 = 14 (E) · 60% of 75 = 45 (S) · 60% of 30 = 18 (I) · 5% of 160 = 8 (P) · 50% of 12 = 6 (F) · 25% of 164 = 41 (G) · 25% of 148 = 37 (R)

Clue 3 (Exponents): "THE THIEF CAREFULLY AVOIDED THE QUICKSAND"

$15^2 = 225$ (T) · $3^3 = 27$ (D) · $3^4 = 81$ (Y) · $14^2 = 196$ (C) · $2^2 = 4$ (S) · $11^2 = 121$ (V) · $7^3 = 343$ (F) · $13^2 = 169$ (L) · $2^3 = 8$ (N) · $2^8 = 256$ (A) · $6^3 = 216$ (U) · $3^2 = 9$ (K) · $2^7 = 128$ (O) · $2^5 = 32$ (E) · $18^2 = 324$ (H) · $3^5 = 243$ (R) · $5^2 = 25$ (I) · $5^3 = 125$ (Q)

Clue 4 (Order of operations): "CURLY STRANDS WERE LEFT ON THE STONE WALL"

$10 \times 10 - 20 = 80$ (C) · $8 \times 11 - 25 = 63$ (E) · $9 \times 10 - 20 = 70$ (S) · $10 \times 9 - 23 = 67$ (L) · $2 + 2 \times 8 = 18$ (Y) · $8 \times 10 - 14 = 66$ (R) · $8 \times 8 - 25 = 39$ (D) · $1 + 8 \times 3 = 25$ (U) · $8 \times 11 - 10 = 78$ (H) · $1 + 2 \times 3 = 7$ (A) · $8 \times 10 - 12 = 68$ (W) · $51 + 7 \times 3 = 72$ (F) · $9 \times 10 - 17 = 73$ (O) · $35 + 5 \times 3 = 50$ (T) · $12 \times 7 - 20 = 64$ (N)

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

$60 \div 5 = 12$ · $35 \div 5 = 7$ · $6 \div 6 = 1$ · $12 \div 3 = 4$ · $9 \div 1 = 9$ · $70 \div 7 = 10$ · $15 \div 5 = 3$ · $18 \div 3 = 6$ · $30 \div 6 = 5$ · $33 \div 3 = 11$ · $24 \div 3 = 8$