The Mystery of the Crystal Monkey

Grade 7 math · Addition, Subtraction, Multiplication, Skip counting, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

A sneaky bandit stole the golden crystal monkey from the jungle camp overnight! Detective, examine the tracks and solve the clues to find out which explorer 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 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	GEAR ITEM	SCOUT TOOL	DOMINANT HAND	HAIRSTYLE	TRAP WEAKNESS
Harper West	Crank lantern	Decodable map	Left handed	Ponytail hair	Loud whistles
Ruby Rhodes	Smoke bomb	Climbing boots	Left handed	Braided hair	Flashlight beams
Lucas Thorne	Glider wings	Decodable map	Left handed	Ponytail hair	Flashlight beams
Noah Finch	Glider wings	Scout drone	Right handed	Ponytail hair	Sticky mud
Zoe Vance	Compass watch	Decodable map	Right handed	Braided hair	Loud whistles
Caleb Hayes	Glider wings	Decodable map	Right handed	Spiky hair	Loud whistles
Ella Wilde	Compass watch	Climbing boots	Right handed	Braided hair	Sticky mud
Nora Drake	Smoke bomb	Climbing boots	Right handed	Spiky hair	Flashlight beams
Eli Cruz	Smoke bomb	Binoculars	Left handed	Ponytail hair	Flashlight beams
Ethan Blake	Compass watch	Climbing boots	Left handed	Spiky hair	Flashlight beams
Ava Chen	Glider wings	Climbing boots	Left handed	Ponytail hair	Flashlight beams
Leo Rivers	Crank lantern	Climbing boots	Right handed	Ponytail hair	Flashlight beams
Maya Brooks	Smoke bomb	Climbing boots	Left handed	Ponytail hair	Loud whistles
Mason Reed	Crank lantern	Climbing boots	Left handed	Ponytail hair	Flashlight beams
Sam Stone	Grappling hook	Decodable map	Left handed	Braided hair	Flashlight beams
Jack Sterling	Crank lantern	Binoculars	Right handed	Braided hair	Flashlight beams
Mia Torres	Smoke bomb	Climbing boots	Left handed	Spiky hair	Loud whistles
Ivy Mercer	Grappling hook	Climbing boots	Left handed	Ponytail hair	Flashlight beams
Grace Hall	Glider wings	Whistle gadget	Right handed	Spiky hair	Sticky mud
Chloe Park	Glider wings	Climbing boots	Right handed	Braided hair	Sticky mud
Oliver Vance	Crank lantern	Climbing boots	Left handed	Ponytail hair	Sticky mud

make your own at mathcrackers.com

CLUE 1 Addition

You add up all the lost supply crates found along the muddy jungle path to reveal the first piece of evidence.

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



4083 + 3602 = ☐ → T	3377 + 5152 = ☐ → L	1987 + 3500 = ☐ → B
2041 + 3479 = ☐ → N	1996 + 1523 = ☐ → V	4834 + 3600 = ☐ → C
3620 + 2449 = ☐ → H	5074 + 2609 = ☐ → Y	6339 + 3038 = ☐ → A
3803 + 5033 = ☐ → I	2726 + 2436 = ☐ → R	5361 + 4326 = ☐ → E
2287 + 3227 = ☐ → U	3074 + 5146 = ☐ → O	2649 + 2439 = ☐ → D
1778 + 1047 = ☐ → S		

Scratch space:

CLUE 2 Subtraction

You subtract the broken camp gear from the main inventory list to uncover another clear clue.

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



9690 - 3296 = ☐ → T

5677 - 916 = ☐ → S

3497 - 1074 = ☐ → F

5823 - 1321 = ☐ → O

5568 - 1665 = ☐ → H

11233 - 2593 = ☐ → R

6496 - 4377 = ☐ → A

8078 - 158 = ☐ → C

6711 - 4165 = ☐ → G

7335 - 3274 = ☐ → N

8307 - 4009 = ☐ → D

3595 - 1118 = ☐ → I

8296 - 4039 = ☐ → P

4665 - 2214 = ☐ → L

4212 - 2993 = ☐ → E

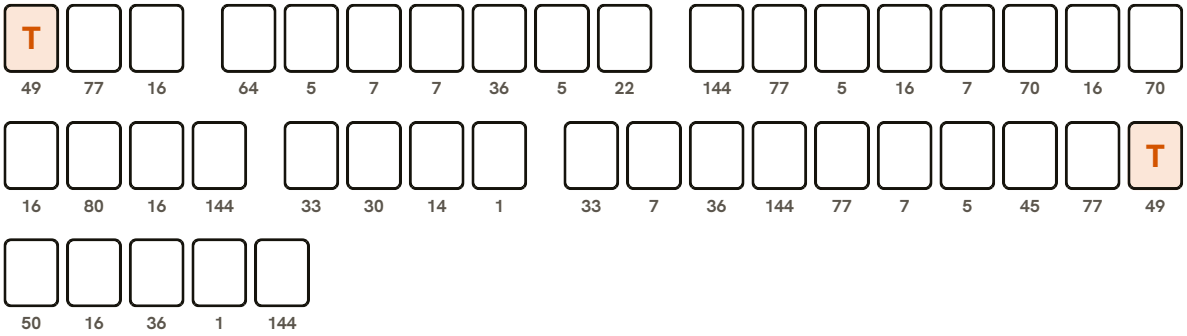
5922 - 4196 = ☐ → U

Scratch space:

CLUE 3 Multiplication facts (1-12)

You count the rows of ancient stone tiles inside the ruin chamber to unlock a hidden message.

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



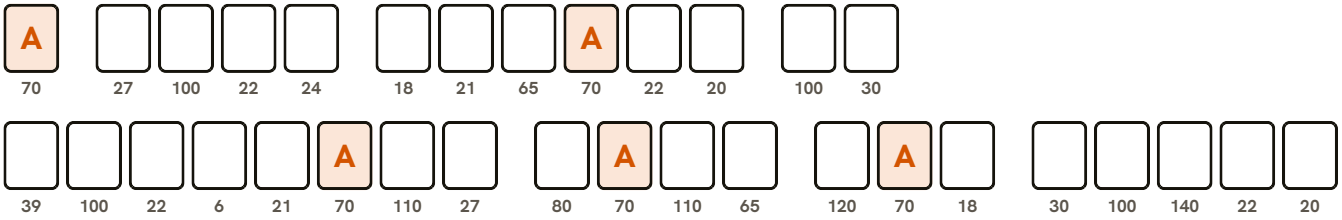
7 × 7 = ☐ → T	7 × 10 = ☐ → D	10 × 8 = ☐ → Y			
2 × 11 = ☐ → N	8 × 2 = ☐ → E	3 × 11 = ☐ → F			
3 × 10 = ☐ → R	7 × 1 = ☐ → L	8 × 8 = ☐ → V	1 × 1 = ☐ → M		
6 × 6 = ☐ → A	9 × 5 = ☐ → G	2 × 7 = ☐ → O	7 × 11 = ☐ → H		
1 × 5 = ☐ → I	5 × 10 = ☐ → B	12 × 12 = ☐ → S			

Scratch space:

CLUE 4 Skip counting

You skip count the carved stone steps leading up the pyramid temple to track the thiefs trail.

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



Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, ___, 80, 90 ☐ → **A**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, ___, 24, 27 ☐ → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 ☐ → **S**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 ☐ → **N**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 ☐ → **U**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 ☐ → **L**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 ☐ → **O**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, ___, 22, 24 ☐ → **D**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, ___, 42, 45 ☐ → **P**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 ☐ → **G**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 ☐ → **H**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 ☐ → **R**

Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 ☐ → **Y**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 ☐ → **W**

Skip-count by 10s. Fill the blank: 10, 20, ___, 40, 50 ☐ → **F**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 ☐ → **I**

Scratch space:

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

You divide the total snack rations equally among the search teams to organize the final clue sheet.

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:

80 ÷ 8 = ☐	77 ÷ 7 = ☐	56 ÷ 7 = ☐	72 ÷ 12 = ☐	72 ÷ 6 = ☐
24 ÷ 8 = ☐	27 ÷ 3 = ☐	12 ÷ 6 = ☐	35 ÷ 7 = ☐	6 ÷ 6 = ☐
84 ÷ 12 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain threw a smoke bomb, then laced up climbing boots.
2. The villain checked the compass watch, then launched a scout drone.
3. The villain lit up the crank lantern, then scouted with binoculars.
4. The villain swung across the canyon, then laced up climbing boots.
5. The villain lit up the crank lantern, then blew a whistle gadget.
6. The villain swung across the canyon, then scouted with binoculars.
7. The villain threw a smoke bomb, then launched a scout drone.
8. The villain soared on glider wings, then read a decodable map.
9. The villain checked the compass watch, then blew a whistle gadget.
10. The villain lit up the crank lantern, then laced up climbing boots.
11. The villain soared on glider wings, then laced up climbing boots.
12. The villain threw a smoke bomb, then read a decodable map.

TEACHER / PARENT

Answer Key

The Mystery of the Crystal Monkey

Culprit: Ivy Mercer

Grappling hook · Climbing boots · Left handed · Ponytail hair · Flashlight beams

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT CARRY BINOCULARS"

4083 + 3602 = 7685 (T) · 3377 + 5152 = 8529 (L) · 1987 + 3500 = 5487 (B) · 2041 + 3479 = 5520 (N) · 1996 + 1523 = 3519 (V) · 4834 + 3600 = 8434 (C) · 3620 + 2449 = 6069 (H) · 5074 + 2609 = 7683 (Y) · 6339 + 3038 = 9377 (A) · 3803 + 5033 = 8836 (I) · 2726 + 2436 = 5162 (R) · 5361 + 4326 = 9687 (E) · 2287 + 3227 = 5514 (U) · 3074 + 5146 = 8220 (O) · 2649 + 2439 = 5088 (D) · 1778 + 1047 = 2825 (S)

Clue 2 (Subtraction): "THE SUSPECT LEFT A LEFT HAND PRINT ON THE GATE"

9690 - 3296 = 6394 (T) · 5677 - 916 = 4761 (S) · 3497 - 1074 = 2423 (F) · 5823 - 1321 = 4502 (O) · 5568 - 1665 = 3903 (H) · 11233 - 2593 = 8640 (R) · 6496 - 4377 = 2119 (A) · 8078 - 158 = 7920 (C) · 6711 - 4165 = 2546 (G) · 7335 - 3274 = 4061 (N) · 8307 - 4009 = 4298 (D) · 3595 - 1118 = 2477 (I) · 8296 - 4039 = 4257 (P) · 4665 - 2214 = 2451 (L) · 4212 - 2993 = 1219 (E) · 5922 - 4196 = 1726 (U)

Clue 3 (Multiplication facts (1-12)): "THE VILLAIN SHIELDED EYES FROM FLASHLIGHT BEAMS"

7 × 7 = 49 (T) · 7 × 10 = 70 (D) · 10 × 8 = 80 (Y) · 2 × 11 = 22 (N) · 8 × 2 = 16 (E) · 3 × 11 = 33 (F) · 3 × 10 = 30 (R) · 7 × 1 = 7 (L) · 8 × 8 = 64 (V) · 1 × 1 = 1 (M) · 6 × 6 = 36 (A) · 9 × 5 = 45 (G) · 2 × 7 = 14 (O) · 7 × 11 = 77 (H) · 1 × 5 = 5 (I) · 5 × 10 = 50 (B) · 12 × 12 = 144 (S)

Clue 4 (Skip counting): "A LONG STRAND OF PONYTAIL HAIR WAS FOUND"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, ___, 80, 90 = 70 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, ___, 24, 27 = 21 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, ___, 21, 24 = 18 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (U) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, ___, 22, 24 = 20 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, ___, 42, 45 = 39 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 = 24 (G) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, ___, 90, 100 = 80 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (R) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (Y) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, ___, 130, 140 = 120 (W) · Skip-count by 10s. Fill the blank: 10, 20, ___, 40, 50 = 30 (F) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, ___, 120, 130 = 110 (I)

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

80 ÷ 8 = 10 · 77 ÷ 7 = 11 · 56 ÷ 7 = 8 · 72 ÷ 12 = 6 · 72 ÷ 6 = 12 · 24 ÷ 8 = 3 · 27 ÷ 3 = 9 · 12 ÷ 6 = 2 · 35 ÷ 7 = 5 · 6 ÷ 6 = 1 · 84 ÷ 12 = 7