



The Shadows of Maple Creek

Grade 5 math · Multiplication, Skip counting, Word problems, Subtraction, Missing addends · Reading level grades 5-6

Detective: _____ Date: _____

A strange creature from a parallel shadow realm has breached Maple Creek. Help Detective Vance decipher the secret clues, decode the evidence, and uncover the villain before the portal opens forever.

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 Dimension Snatcher is _____

Possible suspects

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

NAME	MAIN GADGET	SHADOW ABILITY	OBSERVATIONAL TELL	HAIR STYLE	DISRUPTION TOOL
Joseph Quinn	Walkie Talkie	Shadow Camouflage	Left Handed	Shag Cut	Bright Strobe
Cara Buono	Walkie Talkie	Portal Spark	Right Handed	Curly Mullet	Waffle Batter
Matthew Modine	Flashlight Array	Portal Spark	Left Handed	Curly Mullet	Bright Strobe
Priah Ferguson	Ham Radio	Mind Probe	Left Handed	Curly Mullet	Bright Strobe
Caleb McLaughlin	Super Magnet	Portal Spark	Left Handed	Buzz Cut	Waffle Batter
Gaten Matarazzo	Walkie Talkie	Echo Screech	Right Handed	Shag Cut	Bright Strobe
Winona Vance	Super Magnet	Mind Probe	Left Handed	Buzz Cut	Bright Strobe
Finn Wolf	Super Magnet	Telekinesis	Right Handed	Shag Cut	Bright Strobe
Joe Keery	Ham Radio	Echo Screech	Right Handed	Shag Cut	Bright Strobe
Tommy Hawkins	Slingshot	Telekinesis	Right Handed	Shag Cut	Waffle Batter
Sadie Sink	Flashlight Array	Portal Spark	Left Handed	Buzz Cut	Bright Strobe
David Harbour	Flashlight Array	Shadow Camouflage	Right Handed	Buzz Cut	Bright Strobe
Sean Astin	Flashlight Array	Telekinesis	Right Handed	Buzz Cut	Bright Strobe
Noah Schnapp	Slingshot	Portal Spark	Right Handed	Shag Cut	Bright Strobe
Eduardo Franco	Flashlight Array	Portal Spark	Left Handed	Shag Cut	Waffle Batter
Brett Gelman	Super Magnet	Mind Probe	Left Handed	Curly Mullet	Static Noise
Paul Reiser	Super Magnet	Mind Probe	Right Handed	Shag Cut	Waffle Batter
Sammy Byers	Slingshot	Shadow Camouflage	Right Handed	Buzz Cut	Bright Strobe
Maya Hawke	Ham Radio	Shadow Camouflage	Left Handed	Shag Cut	Bright Strobe
Shannon Purser	Walkie Talkie	Mind Probe	Right Handed	Shag Cut	Bright Strobe
Dacre Montgomery	Super Magnet	Portal Spark	Right Handed	Shag Cut	Bright Strobe

CLUE 1 Multiplication facts (1-12)

To power up the decoder radar, Detective Vance calculated total signal pulses across the sensor grid arrays.

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

A 2x10 grid of boxes. The top row contains the following values from left to right: 70 (with an orange 'T' in the box), 6, 49, 40, 18, 81, 81, 45, 18, 12, 22, 108, 49, 144, 12, 108, and 70 (with an orange 'T' in the box). The bottom row contains the following values from left to right: 3, 144, 49, 77, 108, 54, 70 (with an orange 'T' in the box), 45, 81, 144, 77, 45, 54, and 80.

$10 \times 7 = \boxed{} \rightarrow \boxed{\text{T}}$

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

$3 \times 6 = \boxed{} \rightarrow \boxed{\text{I}}$

$11 \times 2 = \square \rightarrow \boxed{\mathbf{D}}$

$9 \times 6 = \boxed{} \rightarrow \boxed{\text{R}}$

$8 \times 10 = \boxed{} \rightarrow \boxed{\text{K}}$

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

$12 \times 12 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

$1 \times 3 = \square \rightarrow \boxed{\mathbf{U}}$

$3 \times 2 = \square \rightarrow \boxed{\text{H}}$

$9 \times 5 = \square \rightarrow \boxed{\mathbf{A}}$

$7 \times 11 = \boxed{} \rightarrow \boxed{\text{P}}$

$6 \times 2 = \square \rightarrow \boxed{\text{N}}$

$12 \times 9 = \boxed{} \rightarrow \boxed{0}$

$$5 \times 8 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

Scratch space:

CLUE 2 Skip counting

Searching the dark hallway, the team counted the flickering portal lights in rhythmic jump patterns.

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

F																			
16	25	25	35	14	36	90	18	35	60	60	55	25	140	65	36	90	40	55	35

55	65	18	9	110	9	35	55	36	110	65	35

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **F**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 → **I**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **P**

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 → **G**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **R**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 → **S**

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **D**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 → **N**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 → **H**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **T**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 →

Scratch space:

CLUE 3

Word problems

The lab technician reviewed supply logs to track how many energy packs were stolen from the generator room.

Solve each problem, then write its letter in the boxes to fill in the missing word.

Someone scared the villain off with B O B E .

79 32 114 118 91 31 113 31 32 79

There were 101 battery packs. 22 were used up. How many battery packs are left?

Answer: → B

AV Club Director found 74 battery packs yesterday and 40 more today. How many battery packs in all?

Answer: → I

There were 38 waffle boxes. 7 were used up. How many waffle boxes are left?

Answer: → T

AV Club Director found 67 waffle boxes yesterday and 24 more today. How many waffle boxes in all?

Answer: → H

AV Club Director lined up 4 rows of 8 waffle boxes. How many waffle boxes in all?

Answer: → R

There were 147 flashlight bulbs. 29 were used up. How many flashlight bulbs are left?

Answer: → G

AV Club Director found 41 cassette tapes yesterday and 72 more today. How many cassette tapes in all?

Answer: → S

Scratch space:

CLUE 4

Subtraction

Comparing total power drain before and after the rift strike revealed missing voltage units.

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

E				E			E											
5412	7405	3536	2909	5412	2951	4908	5412	3638	1464	3536	2951	8581	4343	8581	1464	3759		

										E			
4343	4356	3759	6286	4908	1937	8581	4343	1937	4343	3638	5412	4908	8581

$7934 - 2522 = \square \rightarrow \text{E}$

$6755 - 3804 = \square \rightarrow \text{N}$

$6550 - 2207 = \square \rightarrow \text{S}$

$6450 - 3541 = \square \rightarrow \text{D}$

$12354 - 3773 = \square \rightarrow \text{T}$

$7774 - 369 = \square \rightarrow \text{V}$

$4024 - 488 = \square \rightarrow \text{I}$

$4139 - 2202 = \square \rightarrow \text{U}$

$7917 - 1631 = \square \rightarrow \text{G}$

$7407 - 3051 = \square \rightarrow \text{H}$

$7138 - 2230 = \square \rightarrow \text{C}$

$4457 - 819 = \square \rightarrow \text{P}$

$6662 - 2903 = \square \rightarrow \text{A}$

$5317 - 3853 = \square \rightarrow \text{O}$

Scratch space:

CLUE 5**Missing addends - the last clue**

To balance the magnetic containment shield, the crew solved for the remaining charge needed in the reactor core.

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:

$6 + \underline{\quad} = 14$

$21 + \underline{\quad} = 24$

$33 + \underline{\quad} = 42$

$35 + \underline{\quad} = 36$

$15 + \underline{\quad} = 21$

$12 + \underline{\quad} = 23$

$6 + \underline{\quad} = 10$

$13 + \underline{\quad} = 25$

$4 + \underline{\quad} = 9$

$39 + \underline{\quad} = 49$

$33 + \underline{\quad} = 35$

Step 2 - cross out the sentence with each answer:

1. The villain snapped the radio antenna, then ignited tiny rift sparks.
2. The villain snapped the radio antenna, then levitated the lab chairs.
3. The villain switched on the radio base, then emitted a high sonic screech.
4. The villain jammed the slingshot gear, then blended into room shadows.
5. The villain shined the strobe beam, then emitted a high sonic screech.
6. The villain jammed the slingshot gear, then ignited tiny rift sparks.
7. The villain snapped the radio antenna, then scanned the town thoughts.
8. The villain snapped the radio antenna, then emitted a high sonic screech.
9. The villain charged the giant magnet, then levitated the lab chairs.
10. The villain jammed the slingshot gear, then emitted a high sonic screech.
11. The villain charged the giant magnet, then scanned the town thoughts.
12. The villain charged the giant magnet, then ignited tiny rift sparks.

Answer Key

The Shadows of Maple Creek

Culprit: Shannon Purser

Walkie Talkie · Mind Probe · Right Handed · Shag Cut · Bright Strobe

Trail: Start 21 → Clue 1 14 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT USE PORTAL SPARK"

$10 \times 7 = 70$ (T) · $7 \times 7 = 49$ (E) · $3 \times 6 = 18$ (I) · $11 \times 2 = 22$ (D) · $9 \times 6 = 54$ (R) · $8 \times 10 = 80$ (K) · $9 \times 9 = 81$ (L) · $12 \times 12 = 144$ (S) · $1 \times 3 = 3$ (U) · $3 \times 2 = 6$ (H) · $9 \times 5 = 45$ (A) · $7 \times 11 = 77$ (P) · $6 \times 2 = 12$ (N) · $12 \times 9 = 108$ (O) · $5 \times 8 = 40$ (V)

Clue 2 (Skip counting): "FOOTPRINTS SHOW A RIGHT HANDED THREAT"

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

Clue 3 (Word problems): "BRIGHT STROBE"

There were 101 battery packs. 22 were used up. How many battery packs are left? = 79 (B) · AV Club Director found 74 battery packs yesterday and 40 more today. How many battery packs in all? = 114 (I) · There were 38 waffle boxes. 7 were used up. How many waffle boxes are left? = 31 (T) · AV Club Director found 67 waffle boxes yesterday and 24 more today. How many waffle boxes in all? = 91 (H) · AV Club Director lined up 4 rows of 8 waffle boxes. How many waffle boxes in all? = 32 (R) · There were 147 flashlight bulbs. 29 were used up. How many flashlight bulbs are left? = 118 (G) · AV Club Director found 41 cassette tapes yesterday and 72 more today. How many cassette tapes in all? = 113 (S)

Clue 4 (Subtraction): "EVIDENCE POINTS TO A SHAG CUT SUSPECT"

$7934 - 2522 = 5412$ (E) · $6755 - 3804 = 2951$ (N) · $6550 - 2207 = 4343$ (S) · $6450 - 3541 = 2909$ (D) · $12354 - 3773 = 8581$ (T) · $7774 - 369 = 7405$ (V) · $4024 - 488 = 3536$ (I) · $4139 - 2202 = 1937$ (U) · $7917 - 1631 = 6286$ (G) · $7407 - 3051 = 4356$ (H) · $7138 - 2230 = 4908$ (C) · $4457 - 819 = 3638$ (P) · $6662 - 2903 = 3759$ (A) · $5317 - 3853 = 1464$ (O)

Clue 5 (Missing addends): surviving statement is box 7 → Shannon Purser

$6 + \underline{\quad} = 14 = 8$ · $21 + \underline{\quad} = 24 = 3$ · $33 + \underline{\quad} = 42 = 9$ · $35 + \underline{\quad} = 36 = 1$ · $15 + \underline{\quad} = 21 = 6$ · $12 + \underline{\quad} = 23 = 11$ · $6 + \underline{\quad} = 10 = 4$ · $13 + \underline{\quad} = 25 = 12$ · $4 + \underline{\quad} = 9 = 5$ · $39 + \underline{\quad} = 49 = 10$ · $33 + \underline{\quad} = 35 = 2$