



The Great Pumpkin Patch Caper

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

Detective: _____ **Date:** _____

Oh no! Someone swiped the Great Golden Pumpkin from the town square right before the big Halloween night party. The suspect left behind a trail of spooky clues!

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 Candy Thief is _____

Possible suspects

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

NAME	SPOOKY COSTUME	MAGIC TRICK	WRITING HAND	WIG COLOR	SWEETS ALLERGY
Laurie	Witch Hat	Shadow Jump	Right Handed	Midnight Black Wig	Sour Gummy Worms
Peter	Zombie Mask	Web Shooter	Right Handed	Neon Green Wig	Chocolate Eyeballs
Sally	Ghost Sheet	Bat Swarm	Right Handed	Neon Green Wig	Chocolate Eyeballs
Wolfman	Ghost Sheet	Shadow Jump	Right Handed	Midnight Black Wig	Sour Gummy Worms
Boris	Skeleton Suit	Floating Spark	Right Handed	Midnight Black Wig	Sour Gummy Worms
Igor	Vampire Cape	Shadow Jump	Right Handed	Neon Green Wig	Sour Gummy Worms
Morticia	Skeleton Suit	Spooky Howl	Right Handed	Bright Orange Wig	Candy Corn
Bela	Skeleton Suit	Floating Spark	Left Handed	Midnight Black Wig	Sour Gummy Worms
Buffy	Zombie Mask	Bat Swarm	Right Handed	Midnight Black Wig	Sour Gummy Worms
Casper	Zombie Mask	Spooky Howl	Right Handed	Midnight Black Wig	Candy Corn
Herman	Ghost Sheet	Floating Spark	Right Handed	Neon Green Wig	Sour Gummy Worms
Sabrina	Witch Hat	Shadow Jump	Right Handed	Midnight Black Wig	Chocolate Eyeballs
Elvira	Skeleton Suit	Floating Spark	Left Handed	Bright Orange Wig	Candy Corn
Lily	Vampire Cape	Floating Spark	Right Handed	Midnight Black Wig	Candy Corn
Vincent	Ghost Sheet	Shadow Jump	Left Handed	Midnight Black Wig	Candy Corn
Marnie	Witch Hat	Spooky Howl	Right Handed	Bright Orange Wig	Candy Corn
Ichabod	Vampire Cape	Shadow Jump	Left Handed	Bright Orange Wig	Chocolate Eyeballs
Gomez	Witch Hat	Bat Swarm	Right Handed	Neon Green Wig	Chocolate Eyeballs
Linus	Vampire Cape	Web Shooter	Right Handed	Midnight Black Wig	Chocolate Eyeballs
Frankie	Ghost Sheet	Web Shooter	Right Handed	Midnight Black Wig	Sour Gummy Worms
Wednesday	Zombie Mask	Web Shooter	Right Handed	Midnight Black Wig	Chocolate Eyeballs

CLUE 1 Rounding

The Spooky Scout checks the gate entry screen. It only shows rounded numbers of guests, but it reveals the first secret!

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

V																
50	4300	500	500	90	4300	110	130	9000	3700	300	110	9000	170	1100	300	3700
290	90	170	300	3000	90	430	70									

Round 51 to the nearest ten → **V**

Round 2,874 to the nearest thousand → **W**

Round 433 to the nearest ten → **R**

Round 523 to the nearest hundred → **L**

Round 258 to the nearest hundred → **S**

Round 4,303 to the nearest hundred → **I**

Round 106 to the nearest ten → **N**

Round 289 to the nearest ten → **B**

Round 167 to the nearest ten → **T**

Round 90 to the nearest ten → **A**

Round 3,711 to the nearest hundred → **E**

Round 9,154 to the nearest thousand → **O**

Round 66 to the nearest ten → **M**

Round 1,090 to the nearest hundred → **U**

Round 129 to the nearest ten → **D**

Scratch space:

Subtraction

We find a pile of dropped treats. By subtracting the stolen sweets from the total, we find a hidden note!

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

The diagram illustrates a sequence of numbers arranged in two rows. The top row contains 15 boxes, and the bottom row contains 10 boxes. Each box is labeled with a number below it. Some boxes are shaded orange and contain the letter 'T', indicating a specific state or value.

Top Row:

- Box 1: Shaded orange, contains 'T'. Number: 8169
- Box 2: White. Number: 7159
- Box 3: White. Number: 3300
- Box 4: White. Number: 3729
- Box 5: White. Number: 2888
- Box 6: White. Number: 5688
- Box 7: White. Number: 5688
- Box 8: White. Number: 7785
- Box 9: White. Number: 2888
- Box 10: White. Number: 8039
- Box 11: White. Number: 4972
- Box 12: White. Number: 8798
- Box 13: White. Number: 2888
- Box 14: Shaded orange, contains 'T'. Number: 8169
- Box 15: White. Number: 3300
- Box 16: White. Number: 4194
- Box 17: White. Number: 4972
- Box 18: White. Number: 2888
- Box 19: Shaded orange, contains 'T'. Number: 8169
- Box 20: White. Number: 7159

Bottom Row:

- Box 1: Shaded orange, contains 'T'. Number: 8169
- Box 2: White. Number: 7159
- Box 3: White. Number: 3300
- Box 4: White. Number: 8798
- Box 5: White. Number: 2888
- Box 6: White. Number: 1329
- Box 7: White. Number: 7159
- Box 8: Shaded orange, contains 'T'. Number: 8169
- Box 9: White. Number: 7159
- Box 10: White. Number: 7785
- Box 11: White. Number: 8039
- Box 12: White. Number: 1311

9974 - 1805 = → **T**

$$7581 - 1893 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$6521 - 1549 = \boxed{} \rightarrow \boxed{\text{W}}$$

$10874 - 2835 = \boxed{} \rightarrow \boxed{\text{N}}$

$$6290 - 3402 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$3647 - 2336 = \boxed{} \rightarrow \boxed{\text{D}}$$

$5580 - 4251 = \boxed{} \rightarrow \boxed{\text{G}}$

$10508 - 1710 = \boxed{} \rightarrow \boxed{\text{R}}$

$$6532 - 2338 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$8857 - 1072 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$3797 - 497 = \boxed{} \rightarrow \boxed{\text{E}}$

$$4377 - 648 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$$8824 - 1665 = \boxed{} \rightarrow \boxed{\text{H}}$$

Scratch space:

CLUE 3 Addition

The Ghoulish Squad counts the plastic spiders on the wall. Adding them all up reveals a message written in cobwebs!

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

T																	
3573	8730	6296	2244	6868	4652	4652	5493	6868	3175	6320	5493	3175	5493	2276	5493	8515	

2856	6320	6139	8298	4447	3624	8298	8298	8515	2276	6139	6320	8298	4776

$1535 + 2038 = \square \rightarrow \text{T}$	$3808 + 4707 = \square \rightarrow \text{Y}$	$2157 + 1467 = \square \rightarrow \text{U}$
$1644 + 1212 = \square \rightarrow \text{F}$	$1383 + 1792 = \square \rightarrow \text{N}$	$2048 + 2399 = \square \rightarrow \text{G}$
$2920 + 2573 = \square \rightarrow \text{A}$	$3507 + 2813 = \square \rightarrow \text{R}$	$2712 + 2064 = \square \rightarrow \text{S}$
$2618 + 3678 = \square \rightarrow \text{E}$	$1919 + 4220 = \square \rightarrow \text{O}$	$2056 + 2596 = \square \rightarrow \text{L}$
$4396 + 3902 = \square \rightarrow \text{M}$	$1265 + 979 = \square \rightarrow \text{V}$	$1402 + 874 = \square \rightarrow \text{W}$
$2977 + 3891 = \square \rightarrow \text{I}$	$4442 + 4288 = \square \rightarrow \text{H}$	

Scratch space:

CLUE 4 Place value

A dusty old combination lock requires us to find the value of the digit in the tens place to pop open the box.

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

B																			
700	30	100	600	2000	5000	100	50	300	3000	8000	300	100	400	70	3000	900	80	300	80

				B					
30	80	7000	8000	700	80	5000	50	400	70

What is the value of the 7 in 4,735? → **B**

What is the value of the 8 in 8,660? → **T**

What is the value of the 3 in 3,691? → **S**

What is the value of the 5 in 8,754? → **I**

What is the value of the 1 in 3,128? → **A**

What is the value of the 5 in 25,484? → **H**

What is the value of the 9 in 8,952? → **W**

What is the value of the 3 in 435? → **L**

What is the value of the 6 in 643? → **C**

What is the value of the 4 in 423? → **N**

What is the value of the 7 in 6,673? → **D**

What is the value of the 7 in 57,488? → **F**

What is the value of the 8 in 6,782? → **E**

What is the value of the 2 in 2,696? → **K**

What is the value of the 3 in 324? → **R**

Scratch space:

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

To get the final clue from the friendly ghost, we must divide a bag of pumpkin seeds equally among the team.

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:

$24 \div 3 = \boxed{}$

$9 \div 1 = \boxed{}$

$7 \div 1 = \boxed{}$

$22 \div 11 = \boxed{}$

$3 \div 3 = \boxed{}$

$44 \div 11 = \boxed{}$

$30 \div 6 = \boxed{}$

$12 \div 2 = \boxed{}$

$6 \div 2 = \boxed{}$

$132 \div 12 = \boxed{}$

$12 \div 1 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain scuttles along the dark path, then vanishes with a spooky howl.
2. The villain flies over the creaky fence, then disappears in a bat swarm.
3. The villain scuttles along the dark path, then fades into a shadow jump.
4. The villain flies over the creaky fence, then vanishes with a spooky howl.
5. The villain scuttles along the dark path, then escapes using a floating spark.
6. The villain scuttles along the dark path, then disappears in a bat swarm.
7. The villain creeps behind the hay bales, then escapes using a floating spark.
8. The villain flies over the creaky fence, then fades into a shadow jump.
9. The villain marches through the fog, then swings away with a web shooter.
10. The villain marches through the fog, then fades into a shadow jump.
11. The villain flies over the creaky fence, then swings away with a web shooter.
12. The villain sneaks through the spooky patch, then swings away with a web shooter.

Answer Key

The Great Pumpkin Patch Caper

Culprit: Wolfman

Ghost Sheet · Shadow Jump · Right Handed · Midnight Black Wig · Sour Gummy Worms

Trail: Start 21 → Clue 1 18 → Clue 2 14 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "VILLAIN DOES NOT USE BAT SWARM"

Round 51 to the nearest ten = 50 (V) · Round 2,874 to the nearest thousand = 3000 (W) · Round 433 to the nearest ten = 430 (R) · Round 523 to the nearest hundred = 500 (L) · Round 258 to the nearest hundred = 300 (S) · Round 4,303 to the nearest hundred = 4300 (I) · Round 106 to the nearest ten = 110 (N) · Round 289 to the nearest ten = 290 (B) · Round 167 to the nearest ten = 170 (T) · Round 90 to the nearest ten = 90 (A) · Round 3,711 to the nearest hundred = 3700 (E) · Round 9,154 to the nearest thousand = 9000 (O) · Round 66 to the nearest ten = 70 (M) · Round 1,090 to the nearest hundred = 1100 (U) · Round 129 to the nearest ten = 130 (D)

Clue 2 (Subtraction): "THE VILLAIN WRITES WITH THE RIGHT HAND"

$9974 - 1805 = 8169$ (T) · $7581 - 1893 = 5688$ (L) · $6521 - 1549 = 4972$ (W) · $10874 - 2835 = 8039$ (N) · $6290 - 3402 = 2888$ (I) · $3647 - 2336 = 1311$ (D) · $5580 - 4251 = 1329$ (G) · $10508 - 1710 = 8798$ (R) · $6532 - 2338 = 4194$ (S) · $8857 - 1072 = 7785$ (A) · $3797 - 497 = 3300$ (E) · $4377 - 648 = 3729$ (V) · $8824 - 1665 = 7159$ (H)

Clue 3 (Addition): "THE VILLAIN RAN AWAY FROM GUMMY WORMS"

$1535 + 2038 = 3573$ (T) · $3808 + 4707 = 8515$ (Y) · $2157 + 1467 = 3624$ (U) · $1644 + 1212 = 2856$ (F) · $1383 + 1792 = 3175$ (N) · $2048 + 2399 = 4447$ (G) · $2920 + 2573 = 5493$ (A) · $3507 + 2813 = 6320$ (R) · $2712 + 2064 = 4776$ (S) · $2618 + 3678 = 6296$ (E) · $1919 + 4220 = 6139$ (O) · $2056 + 2596 = 4652$ (L) · $4396 + 3902 = 8298$ (M) · $1265 + 979 = 2244$ (V) · $1402 + 874 = 2276$ (W) · $2977 + 3891 = 6868$ (I) · $4442 + 4288 = 8730$ (H)

Clue 4 (Place value): "BLACK HAIR STRANDS WERE LEFT BEHIND"

What is the value of the 7 in 4,735? = 700 (B) · What is the value of the 8 in 8,660? = 8000 (T) · What is the value of the 3 in 3,691? = 3000 (S) · What is the value of the 5 in 8,754? = 50 (I) · What is the value of the 1 in 3,128? = 100 (A) · What is the value of the 5 in 25,484? = 5000 (H) · What is the value of the 9 in 8,952? = 900 (W) · What is the value of the 3 in 435? = 30 (L) · What is the value of the 6 in 643? = 600 (C) · What is the value of the 4 in 423? = 400 (N) · What is the value of the 7 in 6,673? = 70 (D) · What is the value of the 7 in 57,488? = 7000 (F) · What is the value of the 8 in 6,782? = 80 (E) · What is the value of the 2 in 2,696? = 2000 (K) · What is the value of the 3 in 324? = 300 (R)

Clue 5 (Division facts (1-12)): surviving statement is box 10 → Wolfman

$24 \div 3 = 8$ · $9 \div 1 = 9$ · $7 \div 1 = 7$ · $22 \div 11 = 2$ · $3 \div 3 = 1$ · $44 \div 11 = 4$ · $30 \div 6 = 5$ · $12 \div 2 = 6$ · $6 \div 2 = 3$ · $132 \div 12 = 11$ · $12 \div 1 = 12$