The Great Pumpkin Patch Prankster

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

Detective: _____ **Date:** _____

Someone snuck into the Harvest Barn and swapped all the fresh pumpkin pies with salty mud pies! Check the clues to catch the perpetrator.

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 Prankster is _____

Possible suspects

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

NAME	DISGUISE	TRICK GADGET	CARRYING STANCE	WIG COLOR	TREAT CRAVING
Luna Lovegood	Witch Hat	Slime Blaster	Left Handed	Pumpkin Orange	Sour Gummies
Hermione Granger	Skeleton Suit	Fog Machine	Right Handed	Neon Purple	Sour Gummies
Winifred Sanderson	Mummy Wraps	Bat Launcher	Left Handed	Midnight Black	Chocolate Bats
Mary Sanderson	Witch Hat	Cobweb Cannon	Left Handed	Neon Purple	Sour Gummies
Bettle Juice	Vampire Cloak	Glow Lantern	Left Handed	Neon Purple	Sour Gummies
Lily Munster	Werewolf Fur	Glow Lantern	Left Handed	Midnight Black	Candy Corn
Frankie Stein	Skeleton Suit	Fog Machine	Right Handed	Neon Purple	Candy Corn
Morticia Addams	Werewolf Fur	Glow Lantern	Right Handed	Pumpkin Orange	Sour Gummies
Neville Longbottom	Mummy Wraps	Slime Blaster	Left Handed	Midnight Black	Chocolate Bats
Pugsley Addams	Witch Hat	Glow Lantern	Left Handed	Midnight Black	Chocolate Bats
Norville Rogers	Vampire Cloak	Fog Machine	Left Handed	Pumpkin Orange	Sour Gummies
Jack Lantern	Witch Hat	Bat Launcher	Left Handed	Neon Purple	Chocolate Bats
Sabrina Spellman	Vampire Cloak	Cobweb Cannon	Left Handed	Midnight Black	Candy Corn
Freddie Jones	Vampire Cloak	Glow Lantern	Left Handed	Midnight Black	Candy Corn
Casper White	Werewolf Fur	Bat Launcher	Left Handed	Neon Purple	Chocolate Bats
Wednesday Addams	Werewolf Fur	Cobweb Cannon	Right Handed	Midnight Black	Candy Corn
Count Vlad	Mummy Wraps	Glow Lantern	Right Handed	Midnight Black	Chocolate Bats
Sally Skellington	Mummy Wraps	Slime Blaster	Right Handed	Neon Purple	Chocolate Bats
Herman Munster	Werewolf Fur	Cobweb Cannon	Left Handed	Midnight Black	Chocolate Bats
Sarah Sanderson	Vampire Cloak	Bat Launcher	Right Handed	Midnight Black	Chocolate Bats
Velma Dinkley	Skeleton Suit	Bat Launcher	Left Handed	Midnight Black	Chocolate Bats

CLUE 1 Addition

Detective Sam counted up all the shiny Halloween badges found near the pie display to unlock the first clue.

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



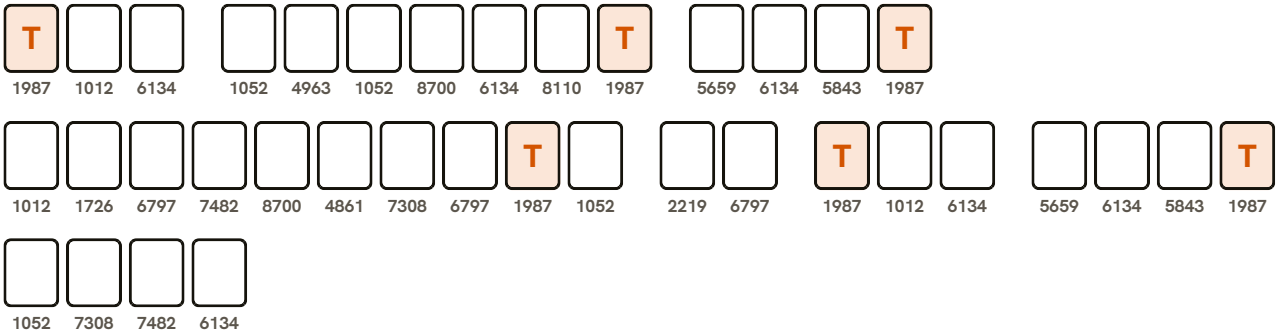
3557 + 2559 = ☐ → T	2562 + 2468 = ☐ → E	948 + 2212 = ☐ → H
1093 + 1516 = ☐ → A	1891 + 2942 = ☐ → I	4428 + 5377 = ☐ → B
3864 + 5847 = ☐ → L	1816 + 921 = ☐ → D	826 + 1395 = ☐ → V
910 + 1129 = ☐ → S	2287 + 2279 = ☐ → W	3247 + 5018 = ☐ → U
4101 + 1960 = ☐ → N	3823 + 3339 = ☐ → C	4832 + 2153 = ☐ → O

Scratch space:

CLUE 2 Subtraction

Sam took away the broken lantern shards from the total evidence pile to uncover the second secret.

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



4302 - 2315 = ☐ → T

2304 - 578 = ☐ → A

6285 - 1322 = ☐ → U

6874 - 77 = ☐ → N

5276 - 415 = ☐ → R

4859 - 2640 = ☐ → O

8300 - 818 = ☐ → D

12609 - 4499 = ☐ → C

9584 - 884 = ☐ → P

10627 - 4784 = ☐ → F

7076 - 1417 = ☐ → L

3667 - 2615 = ☐ → S

3113 - 2101 = ☐ → H

7551 - 1417 = ☐ → E

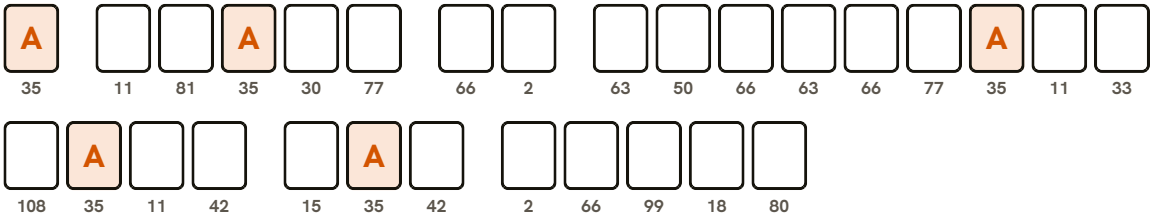
9440 - 2132 = ☐ → I

Scratch space:

CLUE 3 Multiplication facts (1-12)

> By organizing the candy boxes into equal rows and counting the total, Sam unlocked the third piece of evidence.

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



7 × 5 = ☐ → A

5 × 10 = ☐ → H

11 × 1 = ☐ → T

3 × 5 = ☐ → W

9 × 9 = ☐ → R

6 × 3 = ☐ → N

8 × 10 = ☐ → D

3 × 11 = ☐ → E

3 × 10 = ☐ → I

9 × 12 = ☐ → B

9 × 7 = ☐ → C

11 × 9 = ☐ → U

11 × 7 = ☐ → L

1 × 2 = ☐ → F

11 × 6 = ☐ → O

7 × 6 = ☐ → S

Scratch space:

CLUE 4

Rounding

The digital scarecrow scanner only displays rounded distance numbers, but it reveals the fourth clue.

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

M							
90	50	370	500	50	200	70	290

4300	700	2300	1100	110

290	70	3700	170	2300	370	1300

900	170	700	700

500	170	2300	3700

290	70	170

370	30	30	3700

Round 94 to the nearest ten ☐ → **M**

Round 166 to the nearest ten ☐ → **E**

Round 2,297 to the nearest hundred ☐ → **A**

Round 1,115 to the nearest hundred ☐ → **C**

Round 493 to the nearest hundred ☐ → **N**

Round 66 to the nearest ten ☐ → **H**

Round 4,314 to the nearest hundred ☐ → **B**

Round 31 to the nearest ten ☐ → **O**

Round 367 to the nearest ten ☐ → **D**

Round 1,295 to the nearest hundred ☐ → **S**

Round 3,663 to the nearest hundred ☐ → **R**

Round 853 to the nearest hundred ☐ → **F**

Round 54 to the nearest ten ☐ → **I**

Round 292 to the nearest ten ☐ → **T**

Round 106 to the nearest ten ☐ → **K**

Round 247 to the nearest hundred ☐ → **G**

Round 651 to the nearest hundred ☐ → **L**

Scratch space:

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

> Sam split the leftover mini pumpkins into equal gift bags for the town, unlocking the final clue.

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:

7 ÷ 1 = ☐	12 ÷ 6 = ☐	40 ÷ 4 = ☐	12 ÷ 2 = ☐	24 ÷ 2 = ☐
24 ÷ 3 = ☐	132 ÷ 12 = ☐	81 ÷ 9 = ☐	8 ÷ 8 = ☐	27 ÷ 9 = ☐
45 ÷ 9 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain prowls in werewolf fur, then fills the room with thick fog.
2. The villain wraps up in mummy cloth, then launches toy bats into the air.
3. The villain prowls in werewolf fur, then shoots sticky cobwebs around.
4. The villain rattles in a skeleton suit, then launches toy bats into the air.
5. The villain wears a vampire cloak, then shoots sticky cobwebs around.
6. The villain wears a vampire cloak, then launches toy bats into the air.
7. The villain cackles under a witch hat, then shines a spooky glow lantern.
8. The villain wraps up in mummy cloth, then fills the room with thick fog.
9. The villain cackles under a witch hat, then shoots sticky cobwebs around.
10. The villain wraps up in mummy cloth, then blasts slimy goo everywhere.
11. The villain rattles in a skeleton suit, then shoots sticky cobwebs around.
12. The villain cackles under a witch hat, then blasts slimy goo everywhere.

TEACHER / PARENT

Answer Key

The Great Pumpkin Patch Prankster

Culprit: Velma Dinkley

Skeleton Suit · Bat Launcher · Left Handed · Midnight Black · Chocolate Bats

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DID NOT USE A COBWEB CANNON"

3557 + 2559 = 6116 (T) · 2562 + 2468 = 5030 (E) · 948 + 2212 = 3160 (H) · 1093 + 1516 = 2609 (A) · 1891 + 2942 = 4833 (I) · 4428 + 5377 = 9805 (B) · 3864 + 5847 = 9711 (L) · 1816 + 921 = 2737 (D) · 826 + 1395 = 2221 (V) · 910 + 1129 = 2039 (S) · 2287 + 2279 = 4566 (W) · 3247 + 5018 = 8265 (U) · 4101 + 1960 = 6061 (N) · 3823 + 3339 = 7162 (C) · 4832 + 2153 = 6985 (O)

Clue 2 (Subtraction): "THE SUSPECT LEFT HANDPRINTS ON THE LEFT SIDE"

4302 - 2315 = 1987 (T) · 2304 - 578 = 1726 (A) · 6285 - 1322 = 4963 (U) · 6874 - 77 = 6797 (N) · 5276 - 415 = 4861 (R) · 4859 - 2640 = 2219 (O) · 8300 - 818 = 7482 (D) · 12609 - 4499 = 8110 (C) · 9584 - 884 = 8700 (P) · 10627 - 4784 = 5843 (F) · 7076 - 1417 = 5659 (L) · 3667 - 2615 = 1052 (S) · 3113 - 2101 = 1012 (H) · 7551 - 1417 = 6134 (E) · 9440 - 2132 = 7308 (I)

Clue 3 (Multiplication facts (1-12)): "A TRAIL OF CHOCOLATE BATS WAS FOUND"

7 × 5 = 35 (A) · 5 × 10 = 50 (H) · 11 × 1 = 11 (T) · 3 × 5 = 15 (W) · 9 × 9 = 81 (R) · 6 × 3 = 18 (N) · 8 × 10 = 80 (D) · 3 × 11 = 33 (E) · 3 × 10 = 30 (I) · 9 × 12 = 108 (B) · 9 × 7 = 63 (C) · 11 × 9 = 99 (U) · 11 × 7 = 77 (L) · 1 × 2 = 2 (F) · 11 × 6 = 66 (O) · 7 × 6 = 42 (S)

Clue 4 (Rounding): "MIDNIGHT BLACK THREADS FELL NEAR THE DOOR"

Round 94 to the nearest ten = 90 (M) · Round 166 to the nearest ten = 170 (E) · Round 2,297 to the nearest hundred = 2300 (A) · Round 1,115 to the nearest hundred = 1100 (C) · Round 493 to the nearest hundred = 500 (N) · Round 66 to the nearest ten = 70 (H) · Round 4,314 to the nearest hundred = 4300 (B) · Round 31 to the nearest ten = 30 (O) · Round 367 to the nearest ten = 370 (D) · Round 1,295 to the nearest hundred = 1300 (S) · Round 3,663 to the nearest hundred = 3700 (R) · Round 853 to the nearest hundred = 900 (F) · Round 54 to the nearest ten = 50 (I) · Round 292 to the nearest ten = 290 (T) · Round 106 to the nearest ten = 110 (K) · Round 247 to the nearest hundred = 200 (G) · Round 651 to the nearest hundred = 700 (L)

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

7 ÷ 1 = 7 · 12 ÷ 6 = 2 · 40 ÷ 4 = 10 · 12 ÷ 2 = 6 · 24 ÷ 2 = 12 · 24 ÷ 3 = 8 · 132 ÷ 12 = 11 · 81 ÷ 9 = 9 · 8 ÷ 8 = 1 · 27 ÷ 9 = 3 · 45 ÷ 9 = 5