The Halloween Pumpkin Heist

Grade 6 math · Addition, Subtraction, Multiplication, Percentages, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

The giant Golden Pumpkin Trophy disappeared from the town square right before the midnight parade! Track down the villain using the 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 Corn Thief is _____

Possible suspects

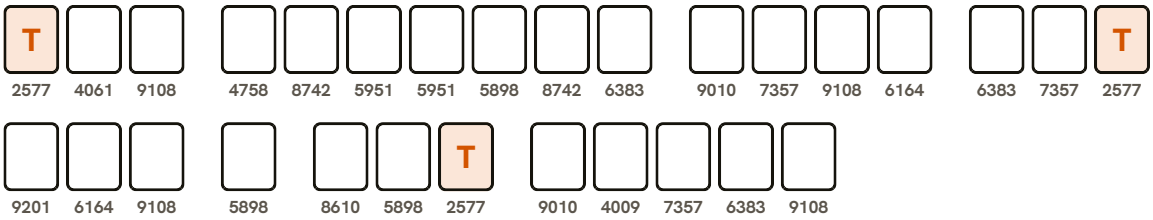
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	DISGUISE COSTUME	SPOOKY GADGET	GLOW WRISTBAND	WIG STYLE	TRICK ALLERGY
Willow Rosenberg	Vampire Cape	Spider Launcher	Right Wrist Glow	Sleek Black	Garlic Bread
Scooby Doo	Witch Hat	Bat Drone	Left Wrist Glow	Sleek Black	Black Cats
Shaggy Rogers	Ghost Sheet	Slime Blaster	Right Wrist Glow	Sleek Black	Garlic Bread
Linus VanPelt	Witch Hat	Fog Machine	Right Wrist Glow	Curly Orange	Garlic Bread
Charlie Brown	Witch Hat	Slime Blaster	Left Wrist Glow	Sleek Black	Garlic Bread
Morticia Addams	Mummy Wraps	Bat Drone	Left Wrist Glow	Spiky Purple	Black Cats
Casper Ghost	Skeleton Suit	Bat Drone	Left Wrist Glow	Spiky Purple	Sour Candy
Wednesday Addams	Vampire Cape	Spider Launcher	Right Wrist Glow	Spiky Purple	Garlic Bread
Glinda Witch	Witch Hat	Bat Drone	Right Wrist Glow	Spiky Purple	Garlic Bread
Frankie Stein	Vampire Cape	Fog Machine	Left Wrist Glow	Curly Orange	Sour Candy
Laurie Strode	Vampire Cape	Fog Machine	Right Wrist Glow	Spiky Purple	Black Cats
Lily Munster	Vampire Cape	Bat Drone	Left Wrist Glow	Sleek Black	Sour Candy
Gomez Addams	Witch Hat	Slime Blaster	Left Wrist Glow	Sleek Black	Sour Candy
Velma Dinkley	Vampire Cape	Glow Lantern	Right Wrist Glow	Sleek Black	Black Cats
Count Dracula	Witch Hat	Fog Machine	Right Wrist Glow	Spiky Purple	Garlic Bread
Fred Jones	Ghost Sheet	Spider Launcher	Left Wrist Glow	Spiky Purple	Garlic Bread
Igor Assistant	Vampire Cape	Fog Machine	Right Wrist Glow	Sleek Black	Garlic Bread
Jack Lantern	Mummy Wraps	Slime Blaster	Right Wrist Glow	Sleek Black	Garlic Bread
Buffy Summers	Skeleton Suit	Bat Drone	Left Wrist Glow	Curly Orange	Sour Candy
Sabrina Spellman	Mummy Wraps	Bat Drone	Left Wrist Glow	Sleek Black	Sour Candy
Daphne Blake	Vampire Cape	Bat Drone	Right Wrist Glow	Sleek Black	Garlic Bread

CLUE 1 Addition

> To calculate the total number of haunted pumpkins collected across all stalls, add the initial haul to the late delivery.

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



1778 + 799 = ☐ → T

5717 + 3391 = ☐ → E

1976 + 4407 = ☐ → N

4383 + 4227 = ☐ → B

1657 + 2352 = ☐ → R

2896 + 3268 = ☐ → S

3383 + 2568 = ☐ → L

4295 + 4715 = ☐ → D

1634 + 3124 = ☐ → V

1906 + 2155 = ☐ → H

1980 + 3918 = ☐ → A

4205 + 4537 = ☐ → I

5155 + 4046 = ☐ → U

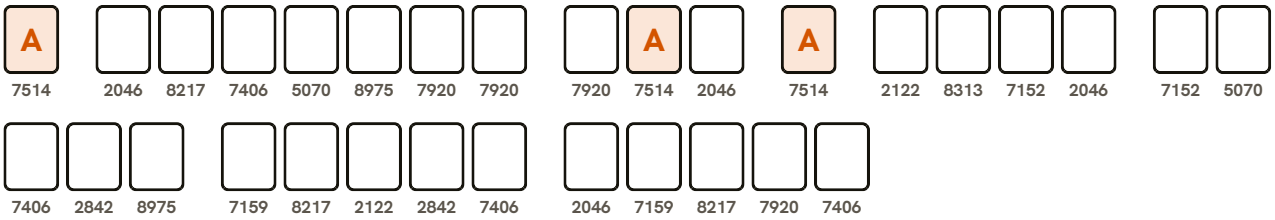
4239 + 3118 = ☐ → O

Scratch space:

CLUE 2 Subtraction

> To figure out how many glow sticks remain in the prize booth after the evening rush, take the original stash and subtract the ones handed out.

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



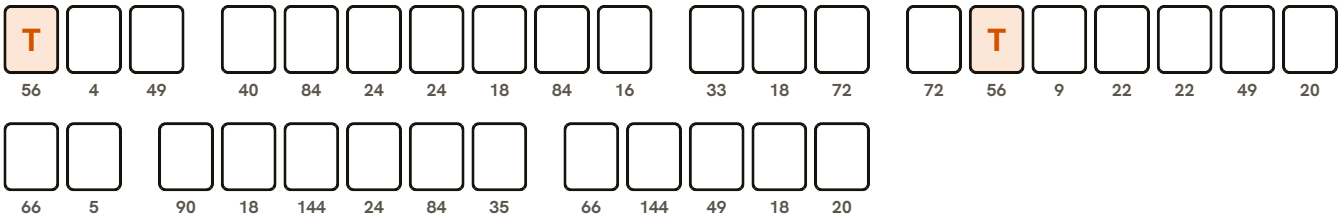
7625 - 111 = ☐ → A	9836 - 2430 = ☐ → T	12121 - 3808 = ☐ → L
7469 - 2399 = ☐ → N	11662 - 3445 = ☐ → I	12515 - 4595 = ☐ → S
7352 - 4510 = ☐ → H	8736 - 1584 = ☐ → O	13614 - 4639 = ☐ → E
5009 - 2887 = ☐ → G	3788 - 1742 = ☐ → W	11996 - 4837 = ☐ → R

Scratch space:

CLUE 3 Multiplication facts (1-12)

> To find the total candy corn pieces sitting on the prize tables, multiply the number of rows by the count per row.

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



7 × 8 = ☐ → T

9 × 1 = ☐ → O

3 × 11 = ☐ → W

12 × 6 = ☐ → S

5 × 7 = ☐ → C

12 × 12 = ☐ → R

4 × 10 = ☐ → V

7 × 12 = ☐ → I

6 × 11 = ☐ → B

4 × 1 = ☐ → H

4 × 4 = ☐ → N

9 × 10 = ☐ → G

5 × 4 = ☐ → D

6 × 4 = ☐ → L

6 × 3 = ☐ → A

7 × 7 = ☐ → E

11 × 2 = ☐ → P

5 × 1 = ☐ → Y

Scratch space:

CLUE 4 Percentages

To find what portion of the spooky carnival tickets were sold early, compute the given percentage of the total allotment.

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

B																		
11	24	4	25	16	8	24	43	43	16	19	4	38	39	42	4	8		

24	43	27	6	4	6	6	19	43	8	25	43	10	43	

25% of 44 = ☐ → B

50% of 38 = ☐ → H

50% of 78 = ☐ → R

20% of 190 = ☐ → I

10% of 250 = ☐ → C

40% of 25 = ☐ → N

50% of 12 = ☐ → T

20% of 135 = ☐ → F

10% of 160 = ☐ → K

40% of 10 = ☐ → A

60% of 40 = ☐ → L

40% of 20 = ☐ → S

25% of 168 = ☐ → W

50% of 86 = ☐ → E

Scratch space:

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

> To determine how many treat bags each monster station receives, divide the grand total of treats equally among the booths.

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:

20 ÷ 4 = ☐ | 18 ÷ 6 = ☐ | 48 ÷ 6 = ☐ | 120 ÷ 12 = ☐ | 48 ÷ 8 = ☐

27 ÷ 3 = ☐ | 24 ÷ 12 = ☐ | 144 ÷ 12 = ☐ | 84 ÷ 12 = ☐ | 6 ÷ 6 = ☐

121 ÷ 11 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain tipped a witch hat, then blasted sticky slime.
2. The villain marched in a skeleton suit, then fired a fog machine.
3. The villain wore a ghost sheet, then blasted sticky slime.
4. The villain swung a vampire cape, then shot a spider launcher.
5. The villain swung a vampire cape, then fired a fog machine.
6. The villain marched in a skeleton suit, then lit a glow lantern.
7. The villain swung a vampire cape, then lit a glow lantern.
8. The villain unraveled mummy wraps, then blasted sticky slime.
9. The villain unraveled mummy wraps, then shot a spider launcher.
10. The villain wore a ghost sheet, then steered a bat drone.
11. The villain unraveled mummy wraps, then fired a fog machine.
12. The villain tipped a witch hat, then steered a bat drone.

TEACHER / PARENT

Answer Key

The Halloween Pumpkin Heist

Culprit: Willow Rosenberg

Vampire Cape · Spider Launcher · Right Wrist Glow · Sleek Black · Garlic Bread

Trail: Start 21 → Clue 1 13 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A BAT DRONE"

1778 + 799 = 2577 (T) · 5717 + 3391 = 9108 (E) · 1976 + 4407 = 6383 (N) · 4383 + 4227 = 8610 (B) · 1657 + 2352 = 4009 (R) · 2896 + 3268 = 6164 (S) · 3383 + 2568 = 5951 (L) · 4295 + 4715 = 9010 (D) · 1634 + 3124 = 4758 (V) · 1906 + 2155 = 4061 (H) · 1980 + 3918 = 5898 (A) · 4205 + 4537 = 8742 (I) · 5155 + 4046 = 9201 (U) · 4239 + 3118 = 7357 (O)

Clue 2 (Subtraction): "A WITNESS SAW A GLOW ON THE RIGHT WRIST"

7625 - 111 = 7514 (A) · 9836 - 2430 = 7406 (T) · 12121 - 3808 = 8313 (L) · 7469 - 2399 = 5070 (N) · 11662 - 3445 = 8217 (I) · 12515 - 4595 = 7920 (S) · 7352 - 4510 = 2842 (H) · 8736 - 1584 = 7152 (O) · 13614 - 4639 = 8975 (E) · 5009 - 2887 = 2122 (G) · 3788 - 1742 = 2046 (W) · 11996 - 4837 = 7159 (R)

Clue 3 (Multiplication facts (1-12)): "THE VILLAIN WAS STOPPED BY GARLIC BREAD"

7 × 8 = 56 (T) · 9 × 1 = 9 (O) · 3 × 11 = 33 (W) · 12 × 6 = 72 (S) · 5 × 7 = 35 (C) · 12 × 12 = 144 (R) · 4 × 10 = 40 (V) · 7 × 12 = 84 (I) · 6 × 11 = 66 (B) · 4 × 1 = 4 (H) · 4 × 4 = 16 (N) · 9 × 10 = 90 (G) · 5 × 4 = 20 (D) · 6 × 4 = 24 (L) · 6 × 3 = 18 (A) · 7 × 7 = 49 (E) · 11 × 2 = 22 (P) · 5 × 1 = 5 (Y)

Clue 4 (Percentages): "BLACK SLEEK HAIR WAS LEFT AT THE SCENE"

25% of 44 = 11 (B) · 50% of 38 = 19 (H) · 50% of 78 = 39 (R) · 20% of 190 = 38 (I) · 10% of 250 = 25 (C) · 40% of 25 = 10 (N) · 50% of 12 = 6 (T) · 20% of 135 = 27 (F) · 10% of 160 = 16 (K) · 40% of 10 = 4 (A) · 60% of 40 = 24 (L) · 40% of 20 = 8 (S) · 25% of 168 = 42 (W) · 50% of 86 = 43 (E)

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

20 ÷ 4 = 5 · 18 ÷ 6 = 3 · 48 ÷ 6 = 8 · 120 ÷ 12 = 10 · 48 ÷ 8 = 6 · 27 ÷ 3 = 9 · 24 ÷ 12 = 2 · 144 ÷ 12 = 12 · 84 ÷ 12 = 7 · 6 ÷ 6 = 1 · 121 ÷ 11 = 11