The Spooky Sugar Caper

Grade 3 math · Place value, Addition, Skip counting, Rounding, Missing addends · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone swiped the grand prize golden pumpkin candy bucket at the annual Pumpkin Hollow Halloween bash! Detective, decode the clues to catch the sneaky culprit.

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

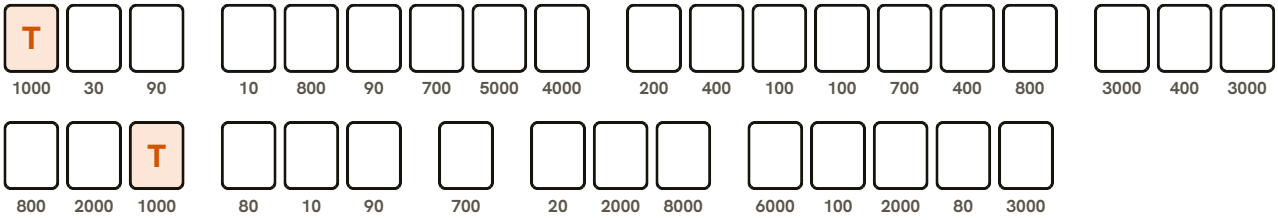
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	HALLOWEEN GEAR	SPOOKY TRICK	DOMINANT HAND	HEADWEAR	TRICK COUNTER
Luna Moon	Bat Wings	Slime Blast	Left Handed	Witch Hat	Garlic Spray
Pugsley Addams	Ghost Lantern	Boo Scream	Left Handed	Monster Mask	Glow Stick
Skelly Jones	Shadow Cape	Fog Cloud	Left Handed	Witch Hat	Garlic Spray
Trixie Treat	Shadow Cape	Slime Blast	Right Handed	Witch Hat	Garlic Spray
Bonesy Brown	Pumpkin Launcher	Boo Scream	Right Handed	Orange Wig	Silver Bell
Sabrina Spell	Ghost Lantern	Fog Cloud	Left Handed	Orange Wig	Glow Stick
Wendy Witch	Glow Wand	Boo Scream	Right Handed	Orange Wig	Garlic Spray
Cobweb Carl	Bat Wings	Fog Cloud	Right Handed	Witch Hat	Garlic Spray
Frankie Stein	Pumpkin Launcher	Boo Scream	Right Handed	Monster Mask	Garlic Spray
Gloom Gary	Glow Wand	Slime Blast	Right Handed	Witch Hat	Garlic Spray
Morticia Addams	Shadow Cape	Jack Lantern Shield	Right Handed	Orange Wig	Glow Stick
Wednesday Addams	Pumpkin Launcher	Jack Lantern Shield	Right Handed	Orange Wig	Glow Stick
Spooky Sam	Glow Wand	Boo Scream	Right Handed	Witch Hat	Garlic Spray
Count Dracula	Pumpkin Launcher	Spider Web	Right Handed	Witch Hat	Silver Bell
Casper Wright	Pumpkin Launcher	Spider Web	Right Handed	Witch Hat	Garlic Spray
Gomez Addams	Shadow Cape	Jack Lantern Shield	Left Handed	Orange Wig	Silver Bell
Pip Pumpkin	Shadow Cape	Slime Blast	Right Handed	Monster Mask	Silver Bell
Elvira Dark	Ghost Lantern	Slime Blast	Right Handed	Witch Hat	Silver Bell
Igor Igorovich	Bat Wings	Boo Scream	Left Handed	Witch Hat	Glow Stick
Wolfie Smith	Glow Wand	Jack Lantern Shield	Right Handed	Orange Wig	Silver Bell
Mavis Dracula	Ghost Lantern	Spider Web	Right Handed	Orange Wig	Glow Stick

CLUE 1 Place value

The detective read the digital padlock screen. Look at the digit in the tens place to find the secret code.

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



What is the value of the 1 in 1,040? ☐ → T

What is the value of the 8 in 7,289? ☐ → U

What is the value of the 3 in 638? ☐ → H

What is the value of the 9 in 1,494? ☐ → E

What is the value of the 8 in 897? ☐ → N

What is the value of the 6 in 76,511? ☐ → C

What is the value of the 1 in 812? ☐ → S

What is the value of the 7 in 3,711? ☐ → A

What is the value of the 2 in 6,421? ☐ → F

What is the value of the 8 in 28,209? ☐ → G

What is the value of the 5 in 65,137? ☐ → K

What is the value of the 2 in 267? ☐ → V

What is the value of the 4 in 4,938? ☐ → Y

What is the value of the 3 in 3,627? ☐ → D

What is the value of the 4 in 453? ☐ → I

What is the value of the 2 in 82,610? ☐ → O

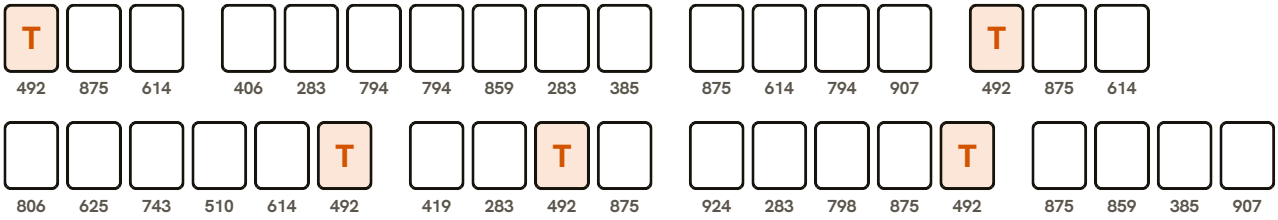
What is the value of the 1 in 4,176? ☐ → L

Scratch space:

CLUE 2 Addition

To count how many candy wrappers were dropped near the crime scene, add all the piles together.

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



148 + 344 = ☐ → T

249 + 157 = ☐ → V

533 + 261 = ☐ → L

160 + 350 = ☐ → K

177 + 106 = ☐ → I

322 + 585 = ☐ → D

516 + 227 = ☐ → C

379 + 246 = ☐ → U

589 + 286 = ☐ → H

550 + 256 = ☐ → B

259 + 126 = ☐ → N

226 + 193 = ☐ → W

328 + 286 = ☐ → E

402 + 396 = ☐ → G

340 + 519 = ☐ → A

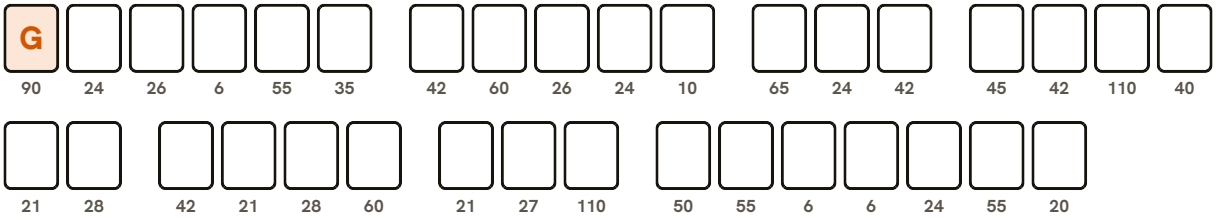
329 + 595 = ☐ → R

Scratch space:

CLUE 3 Skip counting

The mystery footprints go down the hallway in equal groups. Skip count to find where the villain stopped.

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, 70, 80, ___, 100, 110 ☐ → G

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

Skip-count by 5s. Fill the blank: 5, 10, 15, ___, 25, 30 ☐ → N

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, ___, 60, 70 ☐ → V

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 ☐ → R

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, ___, 50, 60 ☐ → D

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, ___, 65, 70 ☐ → P

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 ☐ → O

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 ☐ → **S**

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

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

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

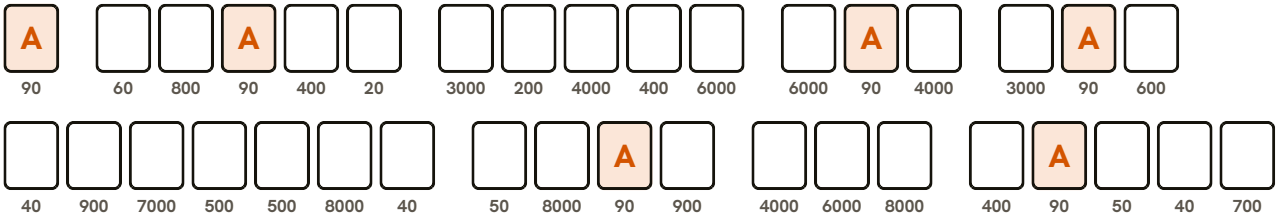
Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 ☐ → **Y**

Scratch space:

CLUE 4 Rounding

The spooky radar sensor rounds every distance to the nearest ten. Round the total to read the distance.

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



Round 88 to the nearest ten ☐ → A

Round 842 to the nearest hundred ☐ → L

Round 7,407 to the nearest thousand ☐ → O

Round 48 to the nearest ten ☐ → N

Round 2,743 to the nearest thousand ☐ → W

Round 198 to the nearest hundred ☐ → I

Round 23 to the nearest ten ☐ → K

Round 3,630 to the nearest thousand ☐ → T

Round 7,792 to the nearest thousand ☐ → E

Round 541 to the nearest hundred ☐ → P

Round 669 to the nearest hundred ☐ → Y

Round 885 to the nearest hundred ☐ → R

Round 6,087 to the nearest thousand ☐ → H

Round 42 to the nearest ten ☐ → D

Round 427 to the nearest hundred ☐ → C

Round 618 to the nearest hundred ☐ → S

Round 56 to the nearest ten ☐ → B

Scratch space:

CLUE 5 Missing addends - the last clue

> The candy jar held twenty pieces, but some are missing. Find the missing amount to unlock the final hint.

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:

1 + ___ = 8 ☐	1 + ___ = 12 ☐	5 + ___ = 6 ☐	7 + ___ = 15 ☐	4 + ___ = 6 ☐
3 + ___ = 7 ☐	2 + ___ = 12 ☐	3 + ___ = 8 ☐	5 + ___ = 14 ☐	
7 + ___ = 10 ☐	2 + ___ = 14 ☐			

Step 2 - cross out the sentence with each answer:

1. The villain waved a glow wand, then let out a boo scream.
2. The villain fired a pumpkin launcher, then created a fog cloud.
3. The villain flapped large bat wings, then let out a boo scream.
4. The villain swung a ghost lantern, then shot a slime blast.
5. The villain swung a ghost lantern, then created a fog cloud.
6. The villain waved a glow wand, then shot a slime blast.
7. The villain wrapped in a shadow cape, then shot a slime blast.
8. The villain flapped large bat wings, then raised a jack lantern shield.
9. The villain waved a glow wand, then raised a jack lantern shield.
10. The villain flapped large bat wings, then shot a spider web.
11. The villain fired a pumpkin launcher, then shot a spider web.
12. The villain fired a pumpkin launcher, then let out a boo scream.

TEACHER / PARENT

Answer Key

The Spooky Sugar Caper

Culprit: Gloom Gary

Glow Wand · Slime Blast · Right Handed · Witch Hat · Garlic Spray

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

Clue 1 (Place value): "THE SNEAKY VILLAIN DID NOT USE A FOG CLOUD"

What is the value of the 1 in 1,040? = 1000 (T) · What is the value of the 8 in 7,289? = 80 (U) · What is the value of the 3 in 638? = 30 (H) · What is the value of the 9 in 1,494? = 90 (E) · What is the value of the 8 in 897? = 800 (N) · What is the value of the 6 in 76,511? = 6000 (C) · What is the value of the 1 in 812? = 10 (S) · What is the value of the 7 in 3,711? = 700 (A) · What is the value of the 2 in 6,421? = 20 (F) · What is the value of the 8 in 28,209? = 8000 (G) · What is the value of the 5 in 65,137? = 5000 (K) · What is the value of the 2 in 267? = 200 (V) · What is the value of the 4 in 4,938? = 4000 (Y) · What is the value of the 3 in 3,627? = 3000 (D) · What is the value of the 4 in 453? = 400 (I) · What is the value of the 2 in 82,610? = 2000 (O) · What is the value of the 1 in 4,176? = 100 (L)

Clue 2 (Addition): "THE VILLAIN HELD THE BUCKET WITH RIGHT HAND"

148 + 344 = 492 (T) · 249 + 157 = 406 (V) · 533 + 261 = 794 (L) · 160 + 350 = 510 (K) · 177 + 106 = 283 (I) · 322 + 585 = 907 (D) · 516 + 227 = 743 (C) · 379 + 246 = 625 (U) · 589 + 286 = 875 (H) · 550 + 256 = 806 (B) · 259 + 126 = 385 (N) · 226 + 193 = 419 (W) · 328 + 286 = 614 (E) · 402 + 396 = 798 (G) · 340 + 519 = 859 (A) · 329 + 595 = 924 (R)

Clue 3 (Skip counting): "GARLIC SPRAY WAS USED TO STOP THE VILLAIN"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 = 90 (G) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, ___, 25, 30 = 20 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 = 55 (I) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 = 24 (A) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (W) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, ___, 24, 27 = 21 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, ___, 60, 70 = 50 (V) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, ___, 28, 30 = 26 (R) · 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, ___, 50, 60 = 40 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, ___, 65, 70 = 60 (P) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, ___, 30, 32 = 28 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 = 42 (S) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, ___, 40, 45 = 35 (C) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 = 45 (U) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 = 10 (Y)

Clue 4 (Rounding): "A BLACK WITCH HAT WAS DROPPED NEAR THE CANDY"

Round 88 to the nearest ten = 90 (A) · Round 842 to the nearest hundred = 800 (L) · Round 7,407 to the nearest thousand = 7000 (O) · Round 48 to the nearest ten = 50 (N) · Round 2,743 to the nearest thousand = 3000 (W) · Round 198 to the nearest hundred = 200 (I) · Round 23 to the nearest ten = 20 (K) · Round 3,630 to the nearest thousand = 4000 (T) · Round 7,792 to the nearest thousand = 8000 (E) · Round 541 to the nearest hundred = 500 (P) · Round 669 to the nearest hundred = 700 (Y) · Round 885 to the nearest hundred = 900 (R) · Round 6,087 to the nearest thousand = 6000 (H) · Round 42 to the nearest ten = 40 (D) · Round 427 to the nearest hundred = 400 (C) · Round 618 to the nearest hundred = 600 (S) · Round 56 to the nearest ten = 60 (B)

Clue 5 (Missing addends): surviving statement is box 6 → Gloom Gary

1 + ___ = 8 = 7 · 1 + ___ = 12 = 11 · 5 + ___ = 6 = 1 · 7 + ___ = 15 = 8 · 4 + ___ = 6 = 2 · 3 + ___ = 7 = 4 · 2 + ___ = 12 = 10 · 3 + ___ = 8 = 5 · 5 + ___ = 14 = 9 · 7 + ___ = 10 = 3 · 2 + ___ = 14 = 12