The Great Pumpkin Patch Heist

Grade 2 math · Place value, Addition, Subtraction, Rounding, Missing addends · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone snagged the Golden Pumpkin right before the Spooksville Halloween Contest! Use your math clues to narrow down the suspects and catch the thief.

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 Pumpkin 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 COSTUME	SPOOKY GADGET	STANCE	WIG COLOR	PUMPKIN TREAT
Spooky Sam	Mummy Wraps	Spider Net	Right Handed	Neon Orange	Chocolate Bat
Mortis Night	Vampire Cape	Spider Net	Right Handed	Midnight Black	Candy Corn
Wendy Wraith	Witch Hat	Fog Machine	Left Handed	Ghostly White	Candy Corn
Bruno Blood	Werewolf Fur	Glow Wand	Right Handed	Ghostly White	Candy Corn
Gilda Ghost	Witch Hat	Candy Bucket	Left Handed	Ghostly White	Candy Corn
Frank Einstein	Werewolf Fur	Candy Bucket	Right Handed	Ghostly White	Candy Corn
Raven Craft	Skeleton Suit	Fog Machine	Right Handed	Ghostly White	Caramel Apple
Jack Lantern	Mummy Wraps	Candy Bucket	Right Handed	Ghostly White	Chocolate Bat
Fiona Fog	Mummy Wraps	Glow Wand	Right Handed	Midnight Black	Candy Corn
Wolfie Moon	Skeleton Suit	Candy Bucket	Right Handed	Ghostly White	Candy Corn
Billy Bones	Vampire Cape	Spider Net	Left Handed	Neon Orange	Candy Corn
Wanda Witch	Witch Hat	Bat Whistle	Right Handed	Ghostly White	Candy Corn
Trent Tomb	Mummy Wraps	Fog Machine	Right Handed	Ghostly White	Candy Corn
Barnaby Bat	Skeleton Suit	Bat Whistle	Right Handed	Ghostly White	Caramel Apple
Sally Shadow	Skeleton Suit	Candy Bucket	Right Handed	Midnight Black	Chocolate Bat
Igor Vance	Mummy Wraps	Candy Bucket	Right Handed	Neon Orange	Chocolate Bat
Piper Pumpkin	Witch Hat	Glow Wand	Left Handed	Neon Orange	Chocolate Bat
Drake Drac	Vampire Cape	Fog Machine	Right Handed	Ghostly White	Candy Corn
Boris Black	Skeleton Suit	Glow Wand	Left Handed	Ghostly White	Caramel Apple
Hazel Hex	Mummy Wraps	Candy Bucket	Right Handed	Neon Orange	Candy Corn
Cleo Cobweb	Witch Hat	Bat Whistle	Right Handed	Midnight Black	Candy Corn

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CLUE 1 Place value

To decode the first vault digit check the hundreds place on the pumpkin keypad.

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



What number has 5 tens and 8 ones? ☐ → T

What number has 5 tens and 5 ones? ☐ → U

What number has 5 tens and 0 ones? ☐ → O

What number has 9 tens and 7 ones? ☐ → R

What number has 4 tens and 4 ones? ☐ → K

What number has 5 tens and 7 ones? ☐ → E

What number has 6 tens and 3 ones? ☐ → S

What number has 8 tens and 8 ones? ☐ → D

What number has 5 tens and 4 ones? ☐ → B

What number has 1 ten and 4 ones? ☐ → A

What number has 3 tens and 8 ones? ☐ → I

What number has 7 tens and 6 ones? ☐ → H

What number has 6 tens and 9 ones? ☐ → Y

What number has 2 tens and 1 one? ☐ → P

What number has 6 tens and 8 ones? ☐ → N

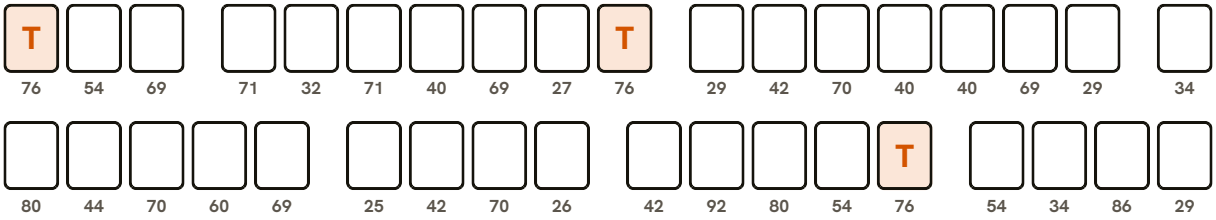
What number has 8 tens and 0 ones? ☐ → C

Scratch space:

CLUE 2 Addition

Count all the candy corn gathered from both fields to reveal the next clue.

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



42 + 34 = ☐ → T	48 + 22 = ☐ → O	21 + 21 = ☐ → R
20 + 12 = ☐ → U	10 + 24 = ☐ → A	35 + 19 = ☐ → H
51 + 29 = ☐ → G	48 + 21 = ☐ → E	29 + 42 = ☐ → S
14 + 30 = ☐ → L	40 + 52 = ☐ → I	16 + 11 = ☐ → C
39 + 21 = ☐ → V	17 + 9 = ☐ → M	60 + 26 = ☐ → N
24 + 16 = ☐ → P	15 + 10 = ☐ → F	17 + 12 = ☐ → D

Scratch space:

CLUE 3 Subtraction

Take away the smashed pumpkins from the total harvest to find the remaining clue.

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

T			T												
20	73	79	20	73	68	79	80	80	56	79	19	46	73	79	61

											T				
53	80	80	79	11	79	19	36	46	79	79	20	84	21	61	19	50

84	53	11	61

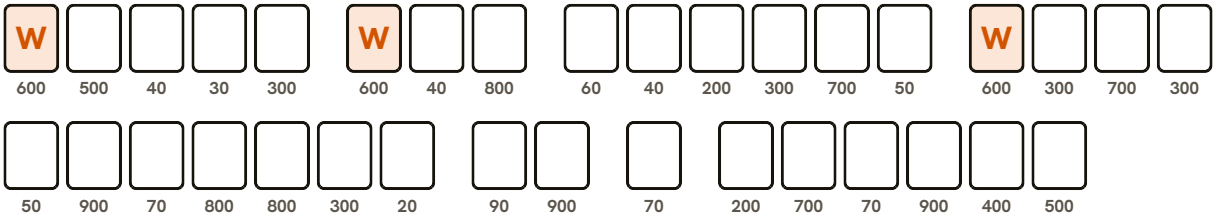
30 - 10 = ☐ → T	59 - 38 = ☐ → A	83 - 33 = ☐ → Y
74 - 6 = ☐ → I	60 - 7 = ☐ → O	95 - 22 = ☐ → H
120 - 36 = ☐ → C	38 - 19 = ☐ → D	92 - 36 = ☐ → L
81 - 35 = ☐ → W	89 - 9 = ☐ → F	95 - 16 = ☐ → E
76 - 15 = ☐ → N	28 - 17 = ☐ → R	56 - 20 = ☐ → S

Scratch space:

CLUE 4 Rounding

The digital scarecrow scanner only gives rounded estimates of the crowd.

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



Round 640 to the nearest hundred ☐ → **W**

Round 223 to the nearest hundred ☐ → **B**

Round 52 to the nearest ten ☐ → **S**

Round 779 to the nearest hundred ☐ → **G**

Round 304 to the nearest hundred ☐ → **E**

Round 18 to the nearest ten ☐ → **D**

Round 56 to the nearest ten ☐ → **F**

Round 31 to the nearest ten ☐ → **T**

Round 74 to the nearest ten ☐ → **A**

Round 667 to the nearest hundred ☐ → **R**

Round 538 to the nearest hundred ☐ → **H**

Round 884 to the nearest hundred ☐ → **N**

Round 411 to the nearest hundred ☐ → **C**

Round 86 to the nearest ten ☐ → **O**

Round 41 to the nearest ten ☐ → **I**

Scratch space:

CLUE 5 Missing addends - the last clue

Figure out how many extra lanterns are missing to complete the fence display.

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 + ___ = 3 ☐	3 + ___ = 8 ☐	4 + ___ = 7 ☐	10 + ___ = 18 ☐
1 + ___ = 13 ☐	2 + ___ = 3 ☐	1 + ___ = 7 ☐	10 + ___ = 17 ☐
7 + ___ = 17 ☐	1 + ___ = 12 ☐	7 + ___ = 16 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain wore a vampire cape, then waved a bright glow wand.
2. The villain growled in werewolf fur, then waved a bright glow wand.
3. The villain wrapped in mummy bandages, then blasted a thick fog machine.
4. The villain wore a vampire cape, then blasted a thick fog machine.
5. The villain tipped a pointy witch hat, then blew a high bat whistle.
6. The villain growled in werewolf fur, then carried a big candy bucket.
7. The villain wore a vampire cape, then carried a big candy bucket.
8. The villain tipped a pointy witch hat, then threw a sticky spider net.
9. The villain wrapped in mummy bandages, then threw a sticky spider net.
10. The villain wore a vampire cape, then threw a sticky spider net.
11. The villain rattled in a skeleton suit, then blew a high bat whistle.
12. The villain growled in werewolf fur, then threw a sticky spider net.

TEACHER / PARENT

Answer Key

The Great Pumpkin Patch Heist

Culprit: Drake Drac

Vampire Cape · Fog Machine · Right Handed · Ghostly White · Candy Corn

Trail: Start 21 → Clue 1 14 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SNOOP DID NOT CARRY A CANDY BUCKET"

What number has 5 tens and 8 ones? = 58 (T) · What number has 5 tens and 5 ones? = 55 (U) · What number has 5 tens and 0 ones? = 50 (O) · What number has 9 tens and 7 ones? = 97 (R) · What number has 4 tens and 4 ones? = 44 (K) · What number has 5 tens and 7 ones? = 57 (E) · What number has 6 tens and 3 ones? = 63 (S) · What number has 8 tens and 8 ones? = 88 (D) · What number has 5 tens and 4 ones? = 54 (B) · What number has 1 ten and 4 ones? = 14 (A) · What number has 3 tens and 8 ones? = 38 (I) · What number has 7 tens and 6 ones? = 76 (H) · What number has 6 tens and 9 ones? = 69 (Y) · What number has 2 tens and 1 one? = 21 (P) · What number has 6 tens and 8 ones? = 68 (N) · What number has 8 tens and 0 ones? = 80 (C)

Clue 2 (Addition): "THE SUSPECT DROPPED A GLOVE FROM RIGHT HAND"

42 + 34 = 76 (T) · 48 + 22 = 70 (O) · 21 + 21 = 42 (R) · 20 + 12 = 32 (U) · 10 + 24 = 34 (A) · 35 + 19 = 54 (H) · 51 + 29 = 80 (G) · 48 + 21 = 69 (E) · 29 + 42 = 71 (S) · 14 + 30 = 44 (L) · 40 + 52 = 92 (I) · 16 + 11 = 27 (C) · 39 + 21 = 60 (V) · 17 + 9 = 26 (M) · 60 + 26 = 86 (N) · 24 + 16 = 40 (P) · 15 + 10 = 25 (F) · 17 + 12 = 29 (D)

Clue 3 (Subtraction): "THE THIEF FLED WHEN OFFERED SWEET CANDY CORN"

30 - 10 = 20 (T) · 59 - 38 = 21 (A) · 83 - 33 = 50 (Y) · 74 - 6 = 68 (I) · 60 - 7 = 53 (O) · 95 - 22 = 73 (H) · 120 - 36 = 84 (C) · 38 - 19 = 19 (D) · 92 - 36 = 56 (L) · 81 - 35 = 46 (W) · 89 - 9 = 80 (F) · 95 - 16 = 79 (E) · 76 - 15 = 61 (N) · 28 - 17 = 11 (R) · 56 - 20 = 36 (S)

Clue 4 (Rounding): "WHITE WIG FIBERS WERE SNAGGED ON A BRANCH"

Round 640 to the nearest hundred = 600 (W) · Round 223 to the nearest hundred = 200 (B) · Round 52 to the nearest ten = 50 (S) · Round 779 to the nearest hundred = 800 (G) · Round 304 to the nearest hundred = 300 (E) · Round 18 to the nearest ten = 20 (D) · Round 56 to the nearest ten = 60 (F) · Round 31 to the nearest ten = 30 (T) · Round 74 to the nearest ten = 70 (A) · Round 667 to the nearest hundred = 700 (R) · Round 538 to the nearest hundred = 500 (H) · Round 884 to the nearest hundred = 900 (N) · Round 411 to the nearest hundred = 400 (C) · Round 86 to the nearest ten = 90 (O) · Round 41 to the nearest ten = 40 (I)

Clue 5 (Missing addends): surviving statement is box 4 → Drake Drac

1 + ___ = 3 = 2 · 3 + ___ = 8 = 5 · 4 + ___ = 7 = 3 · 10 + ___ = 18 = 8 · 1 + ___ = 13 = 12 · 2 + ___ = 3 = 1 · 1 + ___ = 7 = 6 · 10 + ___ = 17 = 7 · 7 + ___ = 17 = 10 · 1 + ___ = 12 = 11 · 7 + ___ = 16 = 9