The Haunted Harvest Mystery

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

Detective: _____ **Date:** _____

Someone scrambled the pumpkin patch light grid right before the big Halloween contest! Solve the math clues to uncover the 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 Pumpkin Prowler is _____

Possible suspects

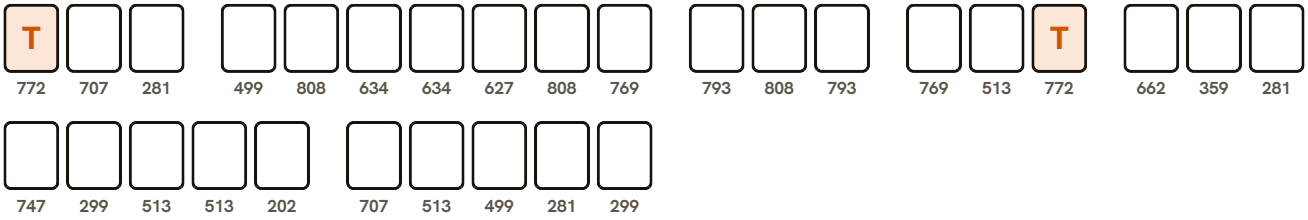
Cross off a row as each clue rules it out. The one left at the end is the culprit.

NAME	SPELL TYPE	SPOOKY GADGET	GLOVE HAND	WIG COLOR	MAGIC SNACK
Monster Max	Shadow Bolt	Glow Lantern	Left Handed	Midnight Black	Salted Popcorn
Gargoyle Gary	Pumpkin Blast	Spider Net	Left Handed	Midnight Black	Salted Popcorn
Wizard Wally	Pumpkin Blast	Spider Net	Left Handed	Midnight Black	Sour Worms
Mummy Manny	Fog Cloud	Broom Hover	Right Handed	Slime Green	Salted Popcorn
Casper Ghost	Fog Cloud	Broom Hover	Right Handed	Slime Green	Candy Corn
Sally Skellington	Fog Cloud	Glow Lantern	Left Handed	Midnight Black	Sour Worms
Zombie Zack	Ghost Wail	Candy Cannon	Left Handed	Neon Orange	Sour Worms
Witch Hazel	Fog Cloud	Bone Whistle	Left Handed	Slime Green	Candy Corn
Gomez Addams	Shadow Bolt	Broom Hover	Left Handed	Slime Green	Sour Worms
Phantom Pete	Fog Cloud	Bone Whistle	Right Handed	Slime Green	Candy Corn
Frankie Stein	Ghost Wail	Glow Lantern	Left Handed	Midnight Black	Sour Worms
Wolfgang Moon	Pumpkin Blast	Candy Cannon	Left Handed	Slime Green	Sour Worms
Ogre Ollie	Pumpkin Blast	Candy Cannon	Right Handed	Neon Orange	Candy Corn
Mavis Dracula	Pumpkin Blast	Bone Whistle	Right Handed	Slime Green	Sour Worms
Jack Lantern	Shadow Bolt	Glow Lantern	Left Handed	Neon Orange	Sour Worms
Vampire Vic	Pumpkin Blast	Candy Cannon	Left Handed	Neon Orange	Sour Worms
Banshee Bella	Ghost Wail	Candy Cannon	Right Handed	Neon Orange	Sour Worms
Goblin Gabe	Fog Cloud	Candy Cannon	Left Handed	Slime Green	Sour Worms
Count Dracula	Pumpkin Blast	Spider Net	Left Handed	Slime Green	Sour Worms
Wednesday Addams	Pumpkin Blast	Spider Net	Left Handed	Midnight Black	Candy Corn
Skeleton Sam	Pumpkin Blast	Bone Whistle	Left Handed	Slime Green	Sour Worms

CLUE 1 Addition

Farmer Bob counted the candy bags in two supply carts to unlock the first clue chest.

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



260 + 512 = ☐ → T

316 + 183 = ☐ → V

85 + 196 = ☐ → E

72 + 130 = ☐ → M

196 + 317 = ☐ → O

379 + 328 = ☐ → H

452 + 210 = ☐ → U

220 + 414 = ☐ → L

239 + 120 = ☐ → S

449 + 320 = ☐ → N

371 + 376 = ☐ → B

272 + 536 = ☐ → I

261 + 366 = ☐ → A

318 + 475 = ☐ → D

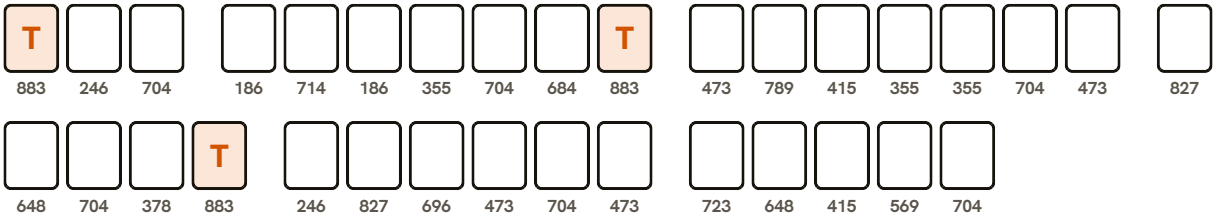
177 + 122 = ☐ → R

Scratch space:

CLUE 2 Subtraction

We subtracted the smashed pumpkins from the total harvest to read the footprints.

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



1153 - 270 = ☐ → T

737 - 53 = ☐ → C

514 - 136 = ☐ → F

486 - 240 = ☐ → H

672 - 24 = ☐ → L

904 - 335 = ☐ → V

691 - 276 = ☐ → O

837 - 114 = ☐ → G

1015 - 311 = ☐ → E

691 - 336 = ☐ → P

749 - 276 = ☐ → D

1056 - 360 = ☐ → N

952 - 163 = ☐ → R

757 - 43 = ☐ → U

323 - 137 = ☐ → S

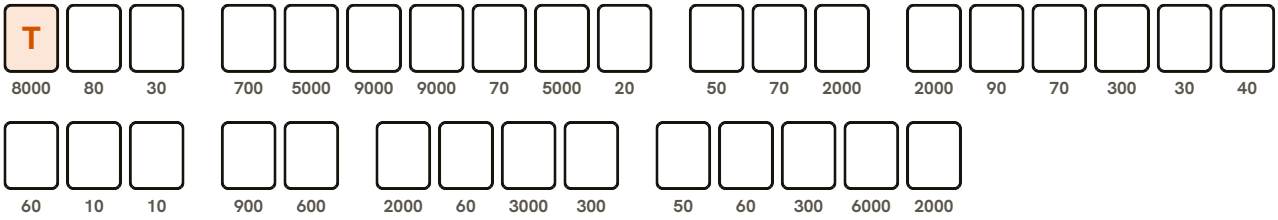
1071 - 244 = ☐ → A

Scratch space:

CLUE 3 Place value

The secret keypad code relied on finding the digit in the tens place of the gate ticket.

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



What is the value of the 8 in 58,210? ☐ → T

What is the value of the 7 in 740? ☐ → V

What is the value of the 2 in 723? ☐ → N

What is the value of the 4 in 6,142? ☐ → D

What is the value of the 7 in 2,474? ☐ → A

What is the value of the 8 in 786? ☐ → H

What is the value of the 5 in 453? ☐ → W

What is the value of the 3 in 5,939? ☐ → E

What is the value of the 6 in 2,609? ☐ → Y

What is the value of the 6 in 6,092? ☐ → M

What is the value of the 9 in 897? ☐ → C

What is the value of the 1 in 217? ☐ → F

What is the value of the 2 in 62,540? ☐ → S

What is the value of the 9 in 39,457? ☐ → L

What is the value of the 3 in 357? ☐ → R

What is the value of the 5 in 5,190? ☐ → I

What is the value of the 6 in 469? ☐ → O

What is the value of the 9 in 974? ☐ → B

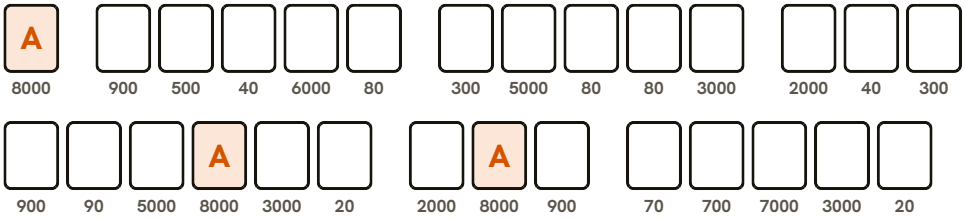
What is the value of the 3 in 3,665? ☐ → U

Scratch space:

CLUE 4 Rounding

The spooky radar display only rounded numbers to the nearest ten to spot the villain.

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



Round 7,632 to the nearest thousand ☐ → **A**

Round 2,774 to the nearest thousand ☐ → **N**

Round 37 to the nearest ten ☐ → **I**

Round 89 to the nearest ten ☐ → **T**

Round 1,906 to the nearest thousand ☐ → **W**

Round 24 to the nearest ten ☐ → **D**

Round 4,927 to the nearest thousand ☐ → **R**

Round 6,541 to the nearest thousand ☐ → **U**

Round 70 to the nearest ten ☐ → **F**

Round 84 to the nearest ten ☐ → **E**

Round 547 to the nearest hundred ☐ → **L**

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

Round 5,753 to the nearest thousand ☐ → **M**

Round 298 to the nearest hundred ☐ → **G**

Round 887 to the nearest hundred ☐ → **S**

Scratch space:

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

> We divided the glow sticks equally into prize buckets to reveal the final message.

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:

18 ÷ 6 = ☐	80 ÷ 8 = ☐	66 ÷ 11 = ☐	16 ÷ 4 = ☐	15 ÷ 3 = ☐
20 ÷ 10 = ☐	84 ÷ 12 = ☐	144 ÷ 12 = ☐	45 ÷ 5 = ☐	77 ÷ 7 = ☐
4 ÷ 4 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain summoned a bat swarm, then shined a glow lantern.
2. The villain raised a fog cloud, then threw a spider net.
3. The villain fired a pumpkin blast, then blasted a candy cannon.
4. The villain summoned a bat swarm, then threw a spider net.
5. The villain let out a ghost wail, then blew a bone whistle.
6. The villain raised a fog cloud, then blasted a candy cannon.
7. The villain let out a ghost wail, then threw a spider net.
8. The villain fired a pumpkin blast, then blew a bone whistle.
9. The villain raised a fog cloud, then shined a glow lantern.
10. The villain fired a pumpkin blast, then threw a spider net.
11. The villain cast a shadow bolt, then zipped on a broom hover.
12. The villain fired a pumpkin blast, then zipped on a broom hover.

TEACHER / PARENT

Answer Key

The Haunted Harvest Mystery

Culprit: Skeleton Sam

Pumpkin Blast · Bone Whistle · Left Handed · Slime Green · Sour Worms

Trail: Start 21 → Clue 1 18 → Clue 2 14 → Clue 3 10 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DID NOT USE BROOM HOVER"

260 + 512 = 772 (T) · 316 + 183 = 499 (V) · 85 + 196 = 281 (E) · 72 + 130 = 202 (M) · 196 + 317 = 513 (O) · 379 + 328 = 707 (H) · 452 + 210 = 662 (U) · 220 + 414 = 634 (L) · 239 + 120 = 359 (S) · 449 + 320 = 769 (N) · 371 + 376 = 747 (B) · 272 + 536 = 808 (I) · 261 + 366 = 627 (A) · 318 + 475 = 793 (D) · 177 + 122 = 299 (R)

Clue 2 (Subtraction): "THE SUSPECT DROPPED A LEFT HANDED GLOVE"

1153 - 270 = 883 (T) · 737 - 53 = 684 (C) · 514 - 136 = 378 (F) · 486 - 240 = 246 (H) · 672 - 24 = 648 (L) · 904 - 335 = 569 (V) · 691 - 276 = 415 (O) · 837 - 114 = 723 (G) · 1015 - 311 = 704 (E) · 691 - 336 = 355 (P) · 749 - 276 = 473 (D) · 1056 - 360 = 696 (N) · 952 - 163 = 789 (R) · 757 - 43 = 714 (U) · 323 - 137 = 186 (S) · 1071 - 244 = 827 (A)

Clue 3 (Place value): "THE VILLAIN WAS SCARED OFF BY SOUR WORMS"

What is the value of the 8 in 58,210? = 8000 (T) · What is the value of the 7 in 740? = 700 (V) · What is the value of the 2 in 723? = 20 (N) · What is the value of the 4 in 6,142? = 40 (D) · What is the value of the 7 in 2,474? = 70 (A) · What is the value of the 8 in 786? = 80 (H) · What is the value of the 5 in 453? = 50 (W) · What is the value of the 3 in 5,939? = 30 (E) · What is the value of the 6 in 2,609? = 600 (Y) · What is the value of the 6 in 6,092? = 6000 (M) · What is the value of the 9 in 897? = 90 (C) · What is the value of the 1 in 217? = 10 (F) · What is the value of the 2 in 62,540? = 2000 (S) · What is the value of the 9 in 39,457? = 9000 (L) · What is the value of the 3 in 357? = 300 (R) · What is the value of the 5 in 5,190? = 5000 (I) · What is the value of the 6 in 469? = 60 (O) · What is the value of the 9 in 974? = 900 (B) · What is the value of the 3 in 3,665? = 3000 (U)

Clue 4 (Rounding): "A SLIME GREEN WIG STRAND WAS FOUND"

Round 7,632 to the nearest thousand = 8000 (A) · Round 2,774 to the nearest thousand = 3000 (N) · Round 37 to the nearest ten = 40 (I) · Round 89 to the nearest ten = 90 (T) · Round 1,906 to the nearest thousand = 2000 (W) · Round 24 to the nearest ten = 20 (D) · Round 4,927 to the nearest thousand = 5000 (R) · Round 6,541 to the nearest thousand = 7000 (U) · Round 70 to the nearest ten = 70 (F) · Round 84 to the nearest ten = 80 (E) · Round 547 to the nearest hundred = 500 (L) · Round 667 to the nearest hundred = 700 (O) · Round 5,753 to the nearest thousand = 6000 (M) · Round 298 to the nearest hundred = 300 (G) · Round 887 to the nearest hundred = 900 (S)

Clue 5 (Division facts (1-12)): surviving statement is box 8 → Skeleton Sam

18 ÷ 6 = 3 · 80 ÷ 8 = 10 · 66 ÷ 11 = 6 · 16 ÷ 4 = 4 · 15 ÷ 3 = 5 · 20 ÷ 10 = 2 · 84 ÷ 12 = 7 · 144 ÷ 12 = 12 · 45 ÷ 5 = 9 · 77 ÷ 7 = 11 · 4 ÷ 4 = 1