



The Case of the Missing Golden Pumpkin

Grade 2 math · Place value, Addition, Subtraction, Skip counting, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

Someone took the Golden Pumpkin right before the big Halloween parade! Check the carnival grounds for clues and solve the math problems to 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	TRICK POWER	SPOOKY ITEM	HANDEDNESS	WIG COLOR	FEAR
Gabe Ghost	pumpkin blast	monster mask	left handed	orange hair	loud bells
Gus Ghoul	shadow wave	skeleton key	left handed	purple hair	loud bells
Hazel Hex	candy curse	monster mask	left handed	purple hair	garlic spray
Drake Dragon	shadow wave	skeleton key	right handed	orange hair	loud bells
Cleo Cat	shadow wave	spell book	left handed	orange hair	bright flashlights
Toby Toad	pumpkin blast	witch broom	left handed	purple hair	loud bells
Mindy Mummy	shadow wave	spell book	left handed	purple hair	bright flashlights
Wanda Witch	bat swarm	glowing lantern	left handed	green hair	bright flashlights
Vera Vampire	candy curse	glowing lantern	left handed	orange hair	bright flashlights
Pip Pumpkin	bat swarm	monster mask	right handed	orange hair	garlic spray
Sasha Spider	bat swarm	witch broom	left handed	orange hair	loud bells
Luna Night	shadow wave	glowing lantern	left handed	orange hair	loud bells
Jack Lantern	ghost vanish	skeleton key	left handed	orange hair	garlic spray
Gwen Goblin	ghost vanish	skeleton key	left handed	orange hair	bright flashlights
Bella Bat	candy curse	skeleton key	right handed	orange hair	loud bells
Sam Skeleton	bat swarm	spell book	right handed	orange hair	garlic spray
Otto Owl	candy curse	monster mask	left handed	orange hair	garlic spray
Bruno Broom	pumpkin blast	witch broom	left handed	orange hair	loud bells
Rory Raven	bat swarm	spell book	left handed	orange hair	loud bells
Fiona Fog	shadow wave	glowing lantern	left handed	green hair	garlic spray
Penny Phantom	shadow wave	spell book	left handed	purple hair	loud bells

CLUE 1

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

A 2x10 grid of boxes. The top row contains the following values from left to right: 'T' (orange), 31, 28, 71, 85, 73, 29, 29, 26, 73, 16, 22, 93, 71, 83, 16, 93, 'T' (orange), 31. The bottom row contains the following values from left to right: 60, 83, 71, 26, 18, 29, 93, 11, 73, 16, 18, 29, 26, 16, 'T' (orange), 31, 71, 35, 16.

→ **T**

→ **E**

→ **O**

→ **A**

→ **N**

→ **D**

→ **L**

→ **V**

→ I

→ **R**

→ **S**

→ **W**

→ **G**

→ **H**

→ **U**

Scratch space:

CLUE 2 Addition

Add up all the monster treats on the table to see who walked by.

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

T									T				T						
78	98	45	38	89	38	94	45	74	78	56	45	39	78	71	45	98	37	67	35
				T															
85	56	45	39	78	98	85	67	35	45	35	75	56	64	87	45				

$35 + 43 = \square \rightarrow$ T	$32 + 35 = \square \rightarrow$ N	$37 + 27 = \square \rightarrow$ O
$51 + 43 = \square \rightarrow$ P	$25 + 12 = \square \rightarrow$ I	$23 + 12 = \square \rightarrow$ D
$54 + 35 = \square \rightarrow$ U	$30 + 68 = \square \rightarrow$ H	$21 + 18 = \square \rightarrow$ F
$17 + 28 = \square \rightarrow$ E	$39 + 17 = \square \rightarrow$ L	$28 + 47 = \square \rightarrow$ G
$16 + 22 = \square \rightarrow$ S	$40 + 34 = \square \rightarrow$ C	$44 + 27 = \square \rightarrow$ B
$31 + 54 = \square \rightarrow$ A	$37 + 50 = \square \rightarrow$ V	

Scratch space:

CLUE 3

Subtraction

Take away the smashed pumpkins from the total count to find another clue.

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

T																
20	69	63	11	15	42	42	41	15	25	85	41	25	41	67	41	71

84	85	87	78	42	87	32	40	81	63	42	42	72

$30 - 10 = \square \rightarrow \boxed{\text{T}}$

$79 - 12 = \square \rightarrow \boxed{\text{W}}$

$49 - 34 = \square \rightarrow \boxed{\text{I}}$

$76 - 4 = \square \rightarrow \boxed{\text{S}}$

$31 - 6 = \square \rightarrow \boxed{\text{N}}$

$73 - 4 = \square \rightarrow \boxed{\text{H}}$

$78 - 15 = \square \rightarrow \boxed{\text{E}}$

$110 - 23 = \square \rightarrow \boxed{\text{O}}$

$57 - 15 = \square \rightarrow \boxed{\text{L}}$

$27 - 16 = \square \rightarrow \boxed{\text{V}}$

$107 - 36 = \square \rightarrow \boxed{\text{Y}}$

$39 - 7 = \square \rightarrow \boxed{\text{U}}$

$42 - 2 = \square \rightarrow \boxed{\text{D}}$

$83 - 5 = \square \rightarrow \boxed{\text{M}}$

$123 - 38 = \square \rightarrow \boxed{\text{R}}$

$95 - 14 = \square \rightarrow \boxed{\text{B}}$

$110 - 26 = \square \rightarrow \boxed{\text{F}}$

$55 - 14 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 4

A number line from 0 to 100 with boxes for numbers and a box for the letter 'A'. The numbers 9, 50, 6, 15, 14, 100, 120, 65, 120, 15, 14, 18, 12, 140, 39, and 15 are placed in boxes. The box containing 'A' is highlighted in orange.

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 →

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 → **D**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 → **S**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **N**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **I**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, , 21, 24 → **G**

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **T**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 → **E**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **W**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 → **R**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 → **H**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20



U

Scratch space:

CLUE 5**Missing addends - the last clue**

Find the missing number of glow sticks to open the final clue chest.

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:

$2 + \underline{\quad} = 13$

$2 + \underline{\quad} = 7$

$10 + \underline{\quad} = 17$

$5 + \underline{\quad} = 15$

$7 + \underline{\quad} = 13$

$3 + \underline{\quad} = 7$

$9 + \underline{\quad} = 10$

$5 + \underline{\quad} = 13$

$1 + \underline{\quad} = 13$

$9 + \underline{\quad} = 11$

$8 + \underline{\quad} = 17$

Step 2 - cross out the sentence with each answer:

1. The villain cast a candy curse, then lit up a glowing lantern.
2. The villain made a shadow wave, then put on a monster mask.
3. The villain summoned a bat swarm, then dropped a spell book.
4. The villain vanished like a ghost, then lit up a glowing lantern.
5. The villain blasted the pumpkin patch, then put on a monster mask.
6. The villain vanished like a ghost, then zoomed away on a witch broom.
7. The villain blasted the pumpkin patch, then zoomed away on a witch broom.
8. The villain cast a candy curse, then dropped a spell book.
9. The villain made a shadow wave, then dropped a spell book.
10. The villain made a shadow wave, then lit up a glowing lantern.
11. The villain summoned a bat swarm, then zoomed away on a witch broom.
12. The villain vanished like a ghost, then unlocked the gate with a skeleton key.

Answer Key

The Case of the Missing Golden Pumpkin

Culprit: Rory Raven

bat swarm · spell book · left handed · orange hair · loud bells

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE A GLOWING LANTERN"

What number has 3 tens and 1 one? = 31 (T) · What number has 7 tens and 1 one? = 71 (E) · What number has 9 tens and 3 ones? = 93 (O) · What number has 2 tens and 6 ones? = 26 (A) · What number has 1 ten and 6 ones? = 16 (N) · What number has 2 tens and 2 ones? = 22 (D) · What number has 2 tens and 9 ones? = 29 (L) · What number has 8 tens and 5 ones? = 85 (V) · What number has 7 tens and 3 ones? = 73 (I) · What number has 3 tens and 5 ones? = 35 (R) · What number has 8 tens and 3 ones? = 83 (S) · What number has 1 ten and 1 one? = 11 (W) · What number has 1 ten and 8 ones? = 18 (G) · What number has 2 tens and 8 ones? = 28 (H) · What number has 6 tens and 0 ones? = 60 (U)

Clue 2 (Addition): "THE SUSPECT LEFT BEHIND A LEFT HANDED GLOVE"

$35 + 43 = 78$ (T) · $32 + 35 = 67$ (N) · $37 + 27 = 64$ (O) · $51 + 43 = 94$ (P) · $25 + 12 = 37$ (I) · $23 + 12 = 35$ (D) · $54 + 35 = 89$ (U) · $30 + 68 = 98$ (H) · $21 + 18 = 39$ (F) · $17 + 28 = 45$ (E) · $39 + 17 = 56$ (L) · $28 + 47 = 75$ (G) · $16 + 22 = 38$ (S) · $40 + 34 = 74$ (C) · $44 + 27 = 71$ (B) · $31 + 54 = 85$ (A) · $37 + 50 = 87$ (V)

Clue 3 (Subtraction): "THE VILLAIN RAN AWAY FROM LOUD BELLS"

$30 - 10 = 20$ (T) · $79 - 12 = 67$ (W) · $49 - 34 = 15$ (I) · $76 - 4 = 72$ (S) · $31 - 6 = 25$ (N) · $73 - 4 = 69$ (H) · $78 - 15 = 63$ (E) · $110 - 23 = 87$ (O) · $57 - 15 = 42$ (L) · $27 - 16 = 11$ (V) · $107 - 36 = 71$ (Y) · $39 - 7 = 32$ (U) · $42 - 2 = 40$ (D) · $83 - 5 = 78$ (M) · $123 - 38 = 85$ (R) · $95 - 14 = 81$ (B) · $110 - 26 = 84$ (F) · $55 - 14 = 41$ (A)

Clue 4 (Skip counting): "A STRAND OF ORANGE HAIR WAS FOUND"

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (S) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (G) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 = 12 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (W) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 = 15 (R) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (U)

Clue 5 (Missing addends): surviving statement is box 3 → Rory Raven

$2 + \underline{\quad} = 13 = 11$ · $2 + \underline{\quad} = 7 = 5$ · $10 + \underline{\quad} = 17 = 7$ · $5 + \underline{\quad} = 15 = 10$ · $7 + \underline{\quad} = 13 = 6$ · $3 + \underline{\quad} = 7 = 4$ · $9 + \underline{\quad} = 10 = 1$ · $5 + \underline{\quad} = 13 = 8$ · $1 + \underline{\quad} = 13 = 12$ · $9 + \underline{\quad} = 11 = 2$ · $8 + \underline{\quad} = 17 = 9$