



The Case of the Pumpkin Patch Prankster

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

Detective: _____ Date: _____

On Halloween night, someone disrupted the annual Spooky Hollow Festival and hid the Golden Pumpkin Trophy! The Spooky Squad must analyze clues, clear innocent suspects, and catch the prankster before midnight.

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 Patch Prankster is _____

Possible suspects

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

NAME	TRICK ATTACK	HALLOWEEN TOOL	DOMINANT HAND	COSTUME HAIR	SECRET WEAKNESS
Mavis Dracula	Pumpkin Bomb	Flying Broom	Right-handed	Orange Hair	Garlic Spray
Casper Ghost	Bat Swarm	Magic Cauldron	Right-handed	Purple Hair	Salt Circle
Beetlejuice	Shadow Cloak	Haunted Horn	Left-handed	Purple Hair	Salt Circle
RL Stine	Bat Swarm	Haunted Horn	Right-handed	Purple Hair	Garlic Spray
Uncle Fester	Bat Swarm	Skeleton Key	Left-handed	Purple Hair	Bright Flashlight
Jack Skellington	Shadow Cloak	Magic Cauldron	Left-handed	Purple Hair	Garlic Spray
Lurch Monster	Ghost Freeze	Flying Broom	Left-handed	Purple Hair	Garlic Spray
Sabrina Spellman	Shadow Cloak	Magic Cauldron	Right-handed	Purple Hair	Salt Circle
Igor Assistant	Spider Web	Skeleton Key	Right-handed	Purple Hair	Garlic Spray
Jack Black	Pumpkin Bomb	Glow Lantern	Left-handed	Green Hair	Bright Flashlight
Pugsley Addams	Bat Swarm	Glow Lantern	Left-handed	Orange Hair	Salt Circle
Tim Burton	Ghost Freeze	Skeleton Key	Right-handed	Purple Hair	Bright Flashlight
Dr Frankenstein	Pumpkin Bomb	Magic Cauldron	Right-handed	Purple Hair	Garlic Spray
Vincent Price	Spider Web	Magic Cauldron	Left-handed	Green Hair	Salt Circle
Bette Midler	Spider Web	Glow Lantern	Right-handed	Purple Hair	Garlic Spray
Bela Lugosi	Pumpkin Bomb	Haunted Horn	Right-handed	Purple Hair	Bright Flashlight
Christina Ricci	Ghost Freeze	Magic Cauldron	Right-handed	Purple Hair	Salt Circle
Wednesday Addams	Ghost Freeze	Haunted Horn	Right-handed	Purple Hair	Garlic Spray
Morticia Addams	Spider Web	Magic Cauldron	Right-handed	Purple Hair	Salt Circle
Gomez Addams	Spider Web	Glow Lantern	Left-handed	Purple Hair	Garlic Spray
Boris Karloff	Ghost Freeze	Flying Broom	Right-handed	Green Hair	Garlic Spray

CLUE 1 Place value

You examine the haunted digital lock on the mansion gate to read the place values of the secret code.

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

T																T
63	26	49	46	75	11	11	73	75	78	14	76	49	97	78	76	63
									T							
71	97	49	73	97	93	49	11	49	63	76	78	93	49	34		

What number has 6 tens and 3 ones? → **T**

What number has 3 tens and 4 ones? → **Y**

What number has 2 tens and 6 ones? → **H**

What number has 9 tens and 7 ones? → **S**

What number has 7 tens and 3 ones? → **A**

What number has 7 tens and 5 ones? → **I**

What number has 7 tens and 1 one? → **U**

What number has 4 tens and 6 ones? → **V**

What number has 4 tens and 9 ones? → **E**

What number has 1 ten and 1 one? → **L**

What number has 7 tens and 8 ones? → **N**

What number has 9 tens and 3 ones? → **K**

What number has 7 tens and 6 ones? → **O**

What number has 1 ten and 4 ones? → **D**

Scratch space:

CLUE 2

Addition

You add up all the trick-or-treat candy bags collected on the porch to track where the villain went.

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

T					T								T			
74	40	96	78	76	74	58	96	59	59	59	83	78	74	40	96	43
			T								T					
84	59	96	74	40	96	76	88	88	76	46	40	74	40	83	58	91

$30 + 44 = \square \rightarrow \boxed{\text{T}}$

$24 + 22 = \square \rightarrow \boxed{\text{G}}$

$27 + 64 = \square \rightarrow \boxed{\text{D}}$

$68 + 28 = \square \rightarrow \boxed{\text{E}}$

$43 + 40 = \square \rightarrow \boxed{\text{A}}$

$57 + 31 = \square \rightarrow \boxed{\text{R}}$

$17 + 41 = \square \rightarrow \boxed{\text{N}}$

$32 + 44 = \square \rightarrow \boxed{\text{I}}$

$27 + 57 = \square \rightarrow \boxed{\text{U}}$

$21 + 22 = \square \rightarrow \boxed{\text{M}}$

$34 + 44 = \square \rightarrow \boxed{\text{W}}$

$21 + 38 = \square \rightarrow \boxed{\text{S}}$

$17 + 23 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 3

Subtraction

You subtract the missing carved pumpkins from the patch display to see how many were taken.

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

T								T									
74	35	50	79	44	64	30	74	50	71	71	41	64	53	71	44	79	

51	41	71	25	38	55	30	48	71	41	56	

$82 - 8 = \square \rightarrow \boxed{\text{T}}$

$80 - 30 = \square \rightarrow \boxed{\text{E}}$

$34 - 9 = \square \rightarrow \boxed{\text{L}}$

$71 - 18 = \square \rightarrow \boxed{\text{F}}$

$76 - 38 = \square \rightarrow \boxed{\text{I}}$

$74 - 26 = \square \rightarrow \boxed{\text{P}}$

$66 - 10 = \square \rightarrow \boxed{\text{Y}}$

$53 - 9 = \square \rightarrow \boxed{\text{O}}$

$60 - 30 = \square \rightarrow \boxed{\text{S}}$

$77 - 22 = \square \rightarrow \boxed{\text{C}}$

$88 - 37 = \square \rightarrow \boxed{\text{G}}$

$50 - 9 = \square \rightarrow \boxed{\text{A}}$

$98 - 34 = \square \rightarrow \boxed{\text{N}}$

$95 - 24 = \square \rightarrow \boxed{\text{R}}$

$118 - 39 = \square \rightarrow \boxed{\text{M}}$

$43 - 8 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 4 Skip counting

You count the bat footprints in equal groups along the trail to follow the mysterious path.

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

P			P														
24	18	80	24	36	27	90	22	26	80	15	22	33	10	70	18	42	30

22	40	40	90	27	33	21	27	42	27

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **P**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, __, 45, 50 → **T**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 → **R**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 → **O**

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **F**

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 → **L**

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

Scratch space:

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

You calculate how many more glowing potion ingredients are needed to power up the magic detector.

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:

$3 + \underline{\quad} = 14$

$10 + \underline{\quad} = 12$

$9 + \underline{\quad} = 12$

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

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

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

$4 + \underline{\quad} = 13$

$3 + \underline{\quad} = 15$

$8 + \underline{\quad} = 9$

$6 + \underline{\quad} = 10$

$8 + \underline{\quad} = 13$

Step 2 - cross out the sentence with each answer:

1. The villain shot spider webs, then blew a haunted horn.
2. The villain blasted ghost freeze, then blew a haunted horn.
3. The villain shot spider webs, then lit a glow lantern.
4. The villain vanished in a shadow cloak, then stirred a magic cauldron.
5. The villain shot spider webs, then stirred a magic cauldron.
6. The villain vanished in a shadow cloak, then lit a glow lantern.
7. The villain summoned a bat swarm, then flew on a broom.
8. The villain threw pumpkin bombs, then flew on a broom.
9. The villain threw pumpkin bombs, then lit a glow lantern.
10. The villain threw pumpkin bombs, then stirred a magic cauldron.
11. The villain summoned a bat swarm, then blew a haunted horn.
12. The villain threw pumpkin bombs, then unlocked doors with a skeleton key.

Answer Key

The Case of the Pumpkin Patch Prankster

Culprit: Dr Frankenstein

Pumpkin Bomb · Magic Cauldron · Right-handed · Purple Hair · Garlic Spray

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE A SKELETON KEY"

What number has 6 tens and 3 ones? = 63 (T) · What number has 3 tens and 4 ones? = 34 (Y) · What number has 2 tens and 6 ones? = 26 (H) · What number has 9 tens and 7 ones? = 97 (S) · What number has 7 tens and 3 ones? = 73 (A) · What number has 7 tens and 5 ones? = 75 (I) · What number has 7 tens and 1 one? = 71 (U) · What number has 4 tens and 6 ones? = 46 (V) · What number has 4 tens and 9 ones? = 49 (E) · What number has 1 ten and 1 one? = 11 (L) · What number has 7 tens and 8 ones? = 78 (N) · What number has 9 tens and 3 ones? = 93 (K) · What number has 7 tens and 6 ones? = 76 (O) · What number has 1 ten and 4 ones? = 14 (D)

Clue 2 (Addition): "THE WITNESS SAW THEM USE THEIR RIGHT HAND"

$30 + 44 = 74$ (T) · $24 + 22 = 46$ (G) · $27 + 64 = 91$ (D) · $68 + 28 = 96$ (E) · $43 + 40 = 83$ (A) · $57 + 31 = 88$ (R) · $17 + 41 = 58$ (N) · $32 + 44 = 76$ (I) · $27 + 57 = 84$ (U) · $21 + 22 = 43$ (M) · $34 + 44 = 78$ (W) · $21 + 38 = 59$ (S) · $17 + 23 = 40$ (H)

Clue 3 (Subtraction): "THE MONSTER RAN FROM GARLIC SPRAY"

$82 - 8 = 74$ (T) · $80 - 30 = 50$ (E) · $34 - 9 = 25$ (L) · $71 - 18 = 53$ (F) · $76 - 38 = 38$ (I) · $74 - 26 = 48$ (P) · $66 - 10 = 56$ (Y) · $53 - 9 = 44$ (O) · $60 - 30 = 30$ (S) · $77 - 22 = 55$ (C) · $88 - 37 = 51$ (G) · $50 - 9 = 41$ (A) · $98 - 34 = 64$ (N) · $95 - 24 = 71$ (R) · $118 - 39 = 79$ (M) · $43 - 8 = 35$ (H)

Clue 4 (Skip counting): "PURPLE HAIR WAS FOUND AT THE SCENE"

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

Clue 5 (Missing addends): surviving statement is box 10 → Dr Frankenstein

$3 + \underline{\quad} = 14 = 11$ · $10 + \underline{\quad} = 12 = 2$ · $9 + \underline{\quad} = 12 = 3$ · $7 + \underline{\quad} = 13 = 6$ · $5 + \underline{\quad} = 13 = 8$ · $10 + \underline{\quad} = 17 = 7$ · $4 + \underline{\quad} = 13 = 9$ · $3 + \underline{\quad} = 15 = 12$ · $8 + \underline{\quad} = 9 = 1$ · $6 + \underline{\quad} = 10 = 4$ · $8 + \underline{\quad} = 13 = 5$