



The Mystery of the Spooky Pumpkin Patch

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

Detective: _____ Date: _____

Someone took the Mayor's giant golden pumpkin right before the big Halloween party! The Pumpkin Thief left tricky clues in the patch. Can you help us find 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 GEAR	FLASHLIGHT HAND	WIG COLOR	SWEETS WEAKNESS
Jack O Lantern	ghost sheet	pumpkin bag	right hand torch	neon orange wig	candy corn
Casper Clay	vampire cape	glowing wand	right hand torch	neon orange wig	candy corn
Pumpkin Pete	witch hat	glowing wand	left hand torch	neon orange wig	chocolate bats
Ghosty Gail	witch hat	spider ring	left hand torch	neon orange wig	candy corn
Witchy Wendy	ghost sheet	glowing wand	left hand torch	dark purple wig	candy corn
Vampire Vlad	vampire cape	bat wings	left hand torch	bright green wig	candy corn
Shadow Shari	skeleton suit	bat wings	left hand torch	neon orange wig	candy corn
Mystic Mia	witch hat	pumpkin bag	left hand torch	bright green wig	gummy worms
Frankie Stein	vampire cape	glowing wand	left hand torch	neon orange wig	chocolate bats
Gobby Goblin	ghost sheet	pumpkin bag	left hand torch	bright green wig	gummy worms
Howling Hal	mummy wrap	bat wings	left hand torch	neon orange wig	candy corn
Mummy Max	mummy wrap	bat wings	right hand torch	dark purple wig	gummy worms
Bonesy Bobby	witch hat	slime bucket	left hand torch	neon orange wig	candy corn
Batty Bella	mummy wrap	bat wings	left hand torch	dark purple wig	gummy worms
Candy Clara	ghost sheet	bat wings	left hand torch	bright green wig	candy corn
Spidery Sally	witch hat	slime bucket	right hand torch	neon orange wig	gummy worms
Spooky Sam	vampire cape	bat wings	left hand torch	dark purple wig	chocolate bats
Luna Moon	ghost sheet	glowing wand	left hand torch	neon orange wig	candy corn
Webby Will	skeleton suit	slime bucket	right hand torch	bright green wig	gummy worms
Zany Zack	ghost sheet	bat wings	right hand torch	neon orange wig	gummy worms
Fangy Fred	mummy wrap	glowing wand	left hand torch	neon orange wig	gummy worms

CLUE 1 Place value

A spooky sign has code numbers on it. The digits show the place value of the thief's hideout!

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

T			T											T				
56	69	62	56	69	82	62	17	47	90	62	31	49	90	56	69	75	40	62
75	31	12	82	47	62	13		13	82	49	46							

What number has 5 tens and 6 ones? → **T**

What number has 4 tens and 0 ones? → **V**

What number has 3 tens and 1 one? → **S**

What number has 8 tens and 2 ones? → **I**

What number has 9 tens and 0 ones? → **O**

What number has 4 tens and 7 ones? → **D**

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

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

What number has 1 ten and 3 ones? → **R**

What number has 1 ten and 2 ones? → **P**

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

What number has 6 tens and 9 ones? → **H**

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

What number has 1 ten and 7 ones? → **F**

Scratch space:

CLUE 2

Addition

We need to add up all the candy buckets on the porch to see which way the thief ran.

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

L										L						
78	42	52	62	27	50	28	26	27	42	78	26	62	27	42		

	L						L					
23	78	59	97	24	28	23	78	24	23	27	62	

$23 + 55 = \square \rightarrow \boxed{\text{L}}$

$8 + 20 = \square \rightarrow \boxed{\text{N}}$

$11 + 12 = \square \rightarrow \boxed{\text{G}}$

$10 + 14 = \square \rightarrow \boxed{\text{I}}$

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

$47 + 50 = \square \rightarrow \boxed{\text{W}}$

$14 + 28 = \square \rightarrow \boxed{\text{E}}$

$10 + 17 = \square \rightarrow \boxed{\text{H}}$

$16 + 10 = \square \rightarrow \boxed{\text{D}}$

$20 + 30 = \square \rightarrow \boxed{\text{A}}$

$27 + 35 = \square \rightarrow \boxed{\text{T}}$

$32 + 20 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 3

Subtraction

Some black bats flew away from the barn. Subtract the ones that left to find the next clue.

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

T														
20	49	63	76	58	24	59	24	57	24	76	50	58	17	38

				T									
45	57	63	63	20	66	24	59	28	76	66	17	58	59

$45 - 25 = \square \rightarrow \boxed{\text{T}}$

$78 - 28 = \square \rightarrow \boxed{\text{F}}$

$83 - 34 = \square \rightarrow \boxed{\text{H}}$

$61 - 4 = \square \rightarrow \boxed{\text{W}}$

$60 - 22 = \square \rightarrow \boxed{\text{M}}$

$64 - 6 = \square \rightarrow \boxed{\text{R}}$

$70 - 25 = \square \rightarrow \boxed{\text{S}}$

$96 - 33 = \square \rightarrow \boxed{\text{E}}$

$80 - 21 = \square \rightarrow \boxed{\text{N}}$

$31 - 14 = \square \rightarrow \boxed{\text{O}}$

$91 - 25 = \square \rightarrow \boxed{\text{C}}$

$80 - 4 = \square \rightarrow \boxed{\text{Y}}$

$60 - 32 = \square \rightarrow \boxed{\text{D}}$

$55 - 31 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 4 Skip counting

We can follow the spooky footprints by skip counting the pumpkin rows in the dark field.

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

W																
50	130	27	8	24	90	35	90	130	8	90	8	16	14	90	140	130
18	14	39	16	39	90	14	60	16	130	130						

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 → **O**

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

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **E**

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 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 → **N**

Scratch space:

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

We must fill the cauldron with spider treats. Find the missing number to unlock the last clue.

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:

$7 + \underline{\quad} = 11$

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

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

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

$10 + \underline{\quad} = 13$

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

$7 + \underline{\quad} = 12$

$6 + \underline{\quad} = 16$

$2 + \underline{\quad} = 10$

$4 + \underline{\quad} = 16$

$6 + \underline{\quad} = 8$

Step 2 - cross out the sentence with each answer:

1. The villain clatters across the old porch, then flaps giant bat wings.
2. The villain drifts over the spooky fence, then flaps giant bat wings.
3. The villain cackles under the bright moon, then waves a glowing wand in the dark.
4. The villain shuffles behind the big hay bales, then flaps giant bat wings.
5. The villain drifts over the spooky fence, then drops a heavy pumpkin bag.
6. The villain drifts over the spooky fence, then waves a glowing wand in the dark.
7. The villain cackles under the bright moon, then tips over a green slime bucket.
8. The villain sneaks through the misty patch, then twirls a shiny spider ring.
9. The villain clatters across the old porch, then drops a heavy pumpkin bag.
10. The villain cackles under the bright moon, then drops a heavy pumpkin bag.
11. The villain drifts over the spooky fence, then tips over a green slime bucket.
12. The villain shuffles behind the big hay bales, then tips over a green slime bucket.

Answer Key

The Mystery of the Spooky Pumpkin Patch

Culprit: Luna Moon

ghost sheet · glowing wand · left hand torch · neon orange wig · candy corn

Trail: Start 21 → Clue 1 20 → Clue 2 14 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT HAVE A SPIDER RING"

What number has 5 tens and 6 ones? = 56 (T) · What number has 4 tens and 0 ones? = 40 (V) · What number has 3 tens and 1 one? = 31 (S) · What number has 8 tens and 2 ones? = 82 (I) · What number has 9 tens and 0 ones? = 90 (O) · What number has 4 tens and 7 ones? = 47 (D) · What number has 4 tens and 6 ones? = 46 (G) · What number has 6 tens and 2 ones? = 62 (E) · What number has 1 ten and 3 ones? = 13 (R) · What number has 1 ten and 2 ones? = 12 (P) · What number has 7 tens and 5 ones? = 75 (A) · What number has 6 tens and 9 ones? = 69 (H) · What number has 4 tens and 9 ones? = 49 (N) · What number has 1 ten and 7 ones? = 17 (F)

Clue 2 (Addition): "LEFT HAND HELD THE GLOWING LIGHT"

$23 + 55 = 78$ (L) · $8 + 20 = 28$ (N) · $11 + 12 = 23$ (G) · $10 + 14 = 24$ (I) · $21 + 38 = 59$ (O) · $47 + 50 = 97$ (W) · $14 + 28 = 42$ (E) · $10 + 17 = 27$ (H) · $16 + 10 = 26$ (D) · $20 + 30 = 50$ (A) · $27 + 35 = 62$ (T) · $32 + 20 = 52$ (F)

Clue 3 (Subtraction): "THEY RAN AWAY FROM SWEET CANDY CORN"

$45 - 25 = 20$ (T) · $78 - 28 = 50$ (F) · $83 - 34 = 49$ (H) · $61 - 4 = 57$ (W) · $60 - 22 = 38$ (M) · $64 - 6 = 58$ (R) · $70 - 25 = 45$ (S) · $96 - 33 = 63$ (E) · $80 - 21 = 59$ (N) · $31 - 14 = 17$ (O) · $91 - 25 = 66$ (C) · $80 - 4 = 76$ (Y) · $60 - 32 = 28$ (D) · $55 - 31 = 24$ (A)

Clue 4 (Skip counting): "WE FOUND NEON ORANGE HAIR IN A TREE"

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

Clue 5 (Missing addends): surviving statement is box 6 → Luna Moon

$7 + \underline{\quad} = 11 = 4$ · $10 + \underline{\quad} = 17 = 7$ · $8 + \underline{\quad} = 9 = 1$ · $3 + \underline{\quad} = 14 = 11$ · $10 + \underline{\quad} = 13 = 3$ · $4 + \underline{\quad} = 13 = 9$ · $7 + \underline{\quad} = 12 = 5$ · $6 + \underline{\quad} = 16 = 10$ · $2 + \underline{\quad} = 10 = 8$ · $4 + \underline{\quad} = 16 = 12$ · $6 + \underline{\quad} = 8 = 2$