



The Great Pumpkin Prankster

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

Detective: _____ Date: _____

Someone took the winning pumpkin right before the big Halloween contest! Help Farmer Jack inspect the clues and catch the trickster.

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	TOOL	ITEM	HANDEDNESS	HEADGEAR	WEAKNESS
Bony Ben	Magic Broom	Jack O Lantern	Right Handed	Black Hat	Garlic Bread
Shadow Sam	Spooky Whistle	Spider Web	Left Handed	Black Hat	Loud Bell
Monster Max	Candy Bag	Jack O Lantern	Left Handed	Orange Wig	Garlic Bread
Trickster Tim	Spooky Whistle	Glow Stick	Left Handed	Black Hat	Shiny Mirror
Candy Chloe	Magic Broom	Jack O Lantern	Left Handed	Purple Cap	Shiny Mirror
Cobweb Cora	Candy Bag	Black Cat	Left Handed	Orange Wig	Loud Bell
Casper Cole	Spooky Whistle	Fog Machine	Right Handed	Orange Wig	Shiny Mirror
Farmer Jack	Candy Bag	Spider Web	Right Handed	Black Hat	Loud Bell
Goblin Gabe	Magic Broom	Spider Web	Right Handed	Purple Cap	Loud Bell
Wicked Wendy	Spooky Whistle	Spider Web	Left Handed	Purple Cap	Shiny Mirror
Count Vlad	Spooky Whistle	Glow Stick	Left Handed	Orange Wig	Loud Bell
Haunting Hank	Magic Broom	Spider Web	Right Handed	Black Hat	Garlic Bread
Howling Holly	Bat Glider	Black Cat	Left Handed	Black Hat	Garlic Bread
Inspector Bones	Spooky Whistle	Black Cat	Left Handed	Black Hat	Loud Bell
Mummy Frank	Bat Glider	Jack O Lantern	Left Handed	Purple Cap	Loud Bell
Spooky Sarah	Magic Broom	Glow Stick	Right Handed	Orange Wig	Shiny Mirror
Batty Bella	Bat Glider	Fog Machine	Left Handed	Orange Wig	Garlic Bread
Witch Hazel	Ghost Flashlight	Fog Machine	Left Handed	Black Hat	Loud Bell
Pumpkin Pete	Candy Bag	Jack O Lantern	Left Handed	Orange Wig	Loud Bell
Foggy Fred	Ghost Flashlight	Glow Stick	Left Handed	Black Hat	Loud Bell
Creepy Mia	Bat Glider	Black Cat	Left Handed	Black Hat	Loud Bell

CLUE 1 Place value

Inspect the tens and ones on the candy gate lock.

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

T																	
19	41	20	98	18	20	16	14	28	19	41	49	20	56	38	49	38	
		T															
18	24	19	39	98	20	16	56	24	11	76	16	63	41	49	18	20	

What number has 1 ten and 9 ones?

 → **T**

What number has 4 tens and 9 ones?

 → **I**

What number has 6 tens and 3 ones?

 → **C**

What number has 3 tens and 9 ones?

 → **U**

What number has 1 ten and 8 ones?

 → **N**

What number has 7 tens and 6 ones?

 → **M**

What number has 2 tens and 8 ones?

 → **Y**

What number has 9 tens and 8 ones?

 → **S**

What number has 5 tens and 6 ones?

 → **F**

What number has 2 tens and 4 ones?

 → **O**

What number has 2 tens and 0 ones?

 → **E**

What number has 4 tens and 1 one?

 → **H**

What number has 1 ten and 6 ones?

 → **A**

What number has 1 ten and 1 one?

 → **G**

What number has 3 tens and 8 ones?

 → **D**

What number has 1 ten and 4 ones?

 → **K**

Scratch space:

CLUE 2

Addition

Add up the pumpkins in the harvest cart.

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

T			T																
62	49	86	62	49	64	86	97	39	56	60	36	36	86	39	80	58	51	39	93

		T		T								T				
85	64	62	49	62	49	86	64	56	71	86	97	62	49	58	51	39

$20 + 42 = \square \rightarrow \boxed{\text{T}}$

$50 + 36 = \square \rightarrow \boxed{\text{E}}$

$36 + 28 = \square \rightarrow \boxed{\text{I}}$

$30 + 63 = \square \rightarrow \boxed{\text{Y}}$

$31 + 25 = \square \rightarrow \boxed{\text{R}}$

$23 + 37 = \square \rightarrow \boxed{\text{O}}$

$40 + 18 = \square \rightarrow \boxed{\text{A}}$

$56 + 29 = \square \rightarrow \boxed{\text{W}}$

$62 + 35 = \square \rightarrow \boxed{\text{F}}$

$32 + 17 = \square \rightarrow \boxed{\text{H}}$

$16 + 23 = \square \rightarrow \boxed{\text{D}}$

$25 + 26 = \square \rightarrow \boxed{\text{N}}$

$47 + 24 = \square \rightarrow \boxed{\text{L}}$

$37 + 43 = \square \rightarrow \boxed{\text{C}}$

$21 + 15 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 3
Subtraction

Subtract the carved gourds to clear the path.

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

T														T						
36	29	67	17	85	88	88	35	85	50	12	35	56	56	36	43	33	33	67	82	
32	38	35	17	67	66	38	88	43	65	82	32	67	88	88						

$62 - 26 = \square \rightarrow$ T	$22 - 5 = \square \rightarrow$ V	$89 - 23 = \square \rightarrow$ R
$72 - 16 = \square \rightarrow$ S	$51 - 13 = \square \rightarrow$ Y	$92 - 4 = \square \rightarrow$ L
$86 - 21 = \square \rightarrow$ U	$71 - 28 = \square \rightarrow$ O	$45 - 16 = \square \rightarrow$ H
$72 - 22 = \square \rightarrow$ N	$91 - 24 = \square \rightarrow$ E	$59 - 24 = \square \rightarrow$ A
$27 - 15 = \square \rightarrow$ W	$115 - 30 = \square \rightarrow$ I	$116 - 34 = \square \rightarrow$ D
$57 - 24 = \square \rightarrow$ P	$59 - 27 = \square \rightarrow$ B	

Scratch space:

CLUE 4 Skip counting

Count by twos along the glowing jack-o-lantern trail.

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

A			A				A			A								
8	33	30	8	20	50	12	8	140	21	8	40	70	16	65	45	45	26	70
		A																
90	26	8	16	140	12	26	45	65	16	20	12							

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

Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 → **S**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 → **C**

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

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

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

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **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, 15, 18, 21, 24, 27, 30, __, 36, 39

→

B

Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18

→

H

Scratch space:

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

Find the missing candy pieces to solve the puzzle.

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:

$7 + \underline{\quad} = 15$

$10 + \underline{\quad} = 14$

$1 + \underline{\quad} = 2$

$3 + \underline{\quad} = 12$

$4 + \underline{\quad} = 14$

$8 + \underline{\quad} = 15$

$4 + \underline{\quad} = 6$

$7 + \underline{\quad} = 18$

$5 + \underline{\quad} = 11$

$6 + \underline{\quad} = 11$

$6 + \underline{\quad} = 9$

Step 2 - cross out the sentence with each answer:

1. The villain scared the party guests, then tangled the fake spider web.
2. The villain hid the trick or treat bags, then left a thick fog machine.
3. The villain swapped the sweet treats, then dropped a bright glow stick.
4. The villain hid the trick or treat bags, then scared a small black cat.
5. The villain hid the trick or treat bags, then tangled the fake spider web.
6. The villain stole the giant pumpkin, then tangled the fake spider web.
7. The villain swapped the sweet treats, then left a thick fog machine.
8. The villain stole the giant pumpkin, then dropped a bright glow stick.
9. The villain scared the party guests, then left a thick fog machine.
10. The villain scared the party guests, then lit a carved jack o lantern.
11. The villain turned off the porch lights, then lit a carved jack o lantern.
12. The villain scared the party guests, then scared a small black cat.

Answer Key

The Great Pumpkin Prankster

Culprit: Inspector Bones

Spooky Whistle · Black Cat · Left Handed · Black Hat · Loud Bell

Trail: Start 21 → Clue 1 18 → Clue 2 13 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE SNEAKY THIEF DID NOT USE A FOG MACHINE"

What number has 1 ten and 9 ones? = 19 (T) · What number has 4 tens and 9 ones? = 49 (I) · What number has 6 tens and 3 ones? = 63 (C) · What number has 3 tens and 9 ones? = 39 (U) · What number has 1 ten and 8 ones? = 18 (N) · What number has 7 tens and 6 ones? = 76 (M) · What number has 2 tens and 8 ones? = 28 (Y) · What number has 9 tens and 8 ones? = 98 (S) · What number has 5 tens and 6 ones? = 56 (F) · What number has 2 tens and 4 ones? = 24 (O) · What number has 2 tens and 0 ones? = 20 (E) · What number has 4 tens and 1 one? = 41 (H) · What number has 1 ten and 6 ones? = 16 (A) · What number has 1 ten and 1 one? = 11 (G) · What number has 3 tens and 8 ones? = 38 (D) · What number has 1 ten and 4 ones? = 14 (K)

Clue 2 (Addition): "THE THIEF DROPPED CANDY WITH THEIR LEFT HAND"

$20 + 42 = 62$ (T) · $50 + 36 = 86$ (E) · $36 + 28 = 64$ (I) · $30 + 63 = 93$ (Y) · $31 + 25 = 56$ (R) · $23 + 37 = 60$ (O) · $40 + 18 = 58$ (A) · $56 + 29 = 85$ (W) · $62 + 35 = 97$ (F) · $32 + 17 = 49$ (H) · $16 + 23 = 39$ (D) · $25 + 26 = 51$ (N) · $47 + 24 = 71$ (L) · $37 + 43 = 80$ (C) · $21 + 15 = 36$ (P)

Clue 3 (Subtraction): "THE VILLAIN WAS STOPPED BY A VERY LOUD BELL"

$62 - 26 = 36$ (T) · $22 - 5 = 17$ (V) · $89 - 23 = 66$ (R) · $72 - 16 = 56$ (S) · $51 - 13 = 38$ (Y) · $92 - 4 = 88$ (L) · $86 - 21 = 65$ (U) · $71 - 28 = 43$ (O) · $45 - 16 = 29$ (H) · $72 - 22 = 50$ (N) · $91 - 24 = 67$ (E) · $59 - 24 = 35$ (A) · $27 - 15 = 12$ (W) · $115 - 30 = 85$ (I) · $116 - 34 = 82$ (D) · $57 - 24 = 33$ (P) · $59 - 27 = 32$ (B)

Clue 4 (Skip counting): "A BLACK HAT WAS DROPPED NEAR THE PORCH"

Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 = 40 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, __, 33, 36 = 30 (L) · Skip-count by 5s. Fill the blank: 5, 10, 15, __, 25, 30 = 20 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (P) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (K) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (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, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (B) · Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 = 12 (H)

Clue 5 (Missing addends): surviving statement is box 12 → Inspector Bones

$7 + \underline{\quad} = 15 = 8$ · $10 + \underline{\quad} = 14 = 4$ · $1 + \underline{\quad} = 2 = 1$ · $3 + \underline{\quad} = 12 = 9$ · $4 + \underline{\quad} = 14 = 10$ · $8 + \underline{\quad} = 15 = 7$ · $4 + \underline{\quad} = 6 = 2$ · $7 + \underline{\quad} = 18 = 11$ · $5 + \underline{\quad} = 11 = 6$ · $6 + \underline{\quad} = 11 = 5$ · $6 + \underline{\quad} = 9 = 3$