



The Midnight Pumpkin Caper

Grade 5 math · Addition, Subtraction, Fractions of a number, Order of operations, Division · Reading level grades 3-4

Detective: _____ **Date:** _____

Someone sabotaged the giant glowing jack o lantern right before the carnival parade! The Head Ghost Carver needs your detective skills to track down the Pumpkin Prowler 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 Prowler 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 GEAR	DOMINANT HAND	WIG COLOR	FEAR TRAIT
Eerie Oliver	Shadow Dash	Spooky Howl	Right Handed	Green Wig	Bright Flashlight
Rita Raven	Candy Swarm	Web Trap	Left Handed	Orange Wig	Silver Whistle
Casper Stone	Shadow Dash	Cobweb Shield	Right Handed	Purple Wig	Garlic Spray
Sammy Shadow	Shadow Dash	Ghost Fog	Right Handed	Orange Wig	Silver Whistle
Jack Lantern	Glow Shock	Cobweb Shield	Right Handed	Purple Wig	Bright Flashlight
Frankie Stein	Pumpkin Blast	Ghost Fog	Right Handed	Green Wig	Silver Whistle
Luna Dark	Glow Shock	Ghost Fog	Left Handed	Purple Wig	Silver Whistle
Draco Bat	Bat Summon	Cobweb Shield	Right Handed	Green Wig	Garlic Spray
Bram Stoker	Candy Swarm	Spooky Howl	Left Handed	Green Wig	Garlic Spray
Otto Owl	Shadow Dash	Web Trap	Right Handed	Green Wig	Bright Flashlight
Gideon Ghost	Pumpkin Blast	Cobweb Shield	Right Handed	Purple Wig	Silver Whistle
Toby Treat	Pumpkin Blast	Web Trap	Left Handed	Green Wig	Silver Whistle
Wendy Witch	Shadow Dash	Cobweb Shield	Right Handed	Orange Wig	Bright Flashlight
Hazel Hex	Pumpkin Blast	Ghost Fog	Right Handed	Orange Wig	Silver Whistle
Vera Vamp	Candy Swarm	Potion Splash	Right Handed	Orange Wig	Garlic Spray
Boris Bones	Bat Summon	Web Trap	Right Handed	Purple Wig	Bright Flashlight
Sally Shade	Glow Shock	Spooky Howl	Right Handed	Purple Wig	Silver Whistle
Peter Phantom	Bat Summon	Web Trap	Right Handed	Purple Wig	Silver Whistle
Pip Pumpkin	Glow Shock	Cobweb Shield	Right Handed	Purple Wig	Silver Whistle
Gwen Goblin	Candy Swarm	Cobweb Shield	Right Handed	Green Wig	Silver Whistle
Gomez Grave	Candy Swarm	Cobweb Shield	Right Handed	Purple Wig	Silver Whistle

CLUE 1 Addition

You tally up all the glowing jack o lanterns along the path to unlock the first puzzle box.

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

T																T
6178	7612	5616	4394	8235	2629	2629	6245	8235	6472	4237	9142	5616	9853	6472	9142	6178

					T					
7535	9853	5616	6245	8652	5616	3126	6178	2858	6245	2367

$3413 + 2765 = \square \rightarrow \text{T}$	$1158 + 1471 = \square \rightarrow \text{L}$	$1951 + 2286 = \square \rightarrow \text{D}$
$5368 + 3774 = \square \rightarrow \text{O}$	$2528 + 1866 = \square \rightarrow \text{V}$	$3059 + 3413 = \square \rightarrow \text{N}$
$2949 + 4663 = \square \rightarrow \text{H}$	$1258 + 1600 = \square \rightarrow \text{R}$	$3577 + 2039 = \square \rightarrow \text{E}$
$2490 + 5045 = \square \rightarrow \text{U}$	$2117 + 1009 = \square \rightarrow \text{B}$	$4527 + 4125 = \square \rightarrow \text{W}$
$1622 + 745 = \square \rightarrow \text{P}$	$4352 + 1893 = \square \rightarrow \text{A}$	$6420 + 3433 = \square \rightarrow \text{S}$
$5256 + 2979 = \square \rightarrow \text{I}$		

Scratch space:

CLUE 2
Subtraction

You calculate how many trick or treat bags are left after the parade to find the missing clue.

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

T																T	
4887	5338	1368	4208	2775	1102	1102	4879	5138	2775	5859	4208	6254	4208	4879	1368	1210	4887

					T								
1039	5053	4208	5402	5138	5859	5338	4887	5338	5053	2775	7533	1368	7533

$7950 - 3063 = \square \rightarrow \boxed{\text{T}}$

$2064 - 696 = \square \rightarrow \boxed{\text{E}}$

$8709 - 4501 = \square \rightarrow \boxed{\text{S}}$

$9519 - 3660 = \square \rightarrow \boxed{\text{G}}$

$8908 - 3506 = \square \rightarrow \boxed{\text{R}}$

$1858 - 756 = \square \rightarrow \boxed{\text{O}}$

$6118 - 780 = \square \rightarrow \boxed{\text{H}}$

$5223 - 85 = \square \rightarrow \boxed{\text{I}}$

$5759 - 4549 = \square \rightarrow \boxed{\text{C}}$

$6200 - 1147 = \square \rightarrow \boxed{\text{A}}$

$3458 - 683 = \square \rightarrow \boxed{\text{N}}$

$1558 - 519 = \square \rightarrow \boxed{\text{W}}$

$8588 - 1055 = \square \rightarrow \boxed{\text{D}}$

$8094 - 1840 = \square \rightarrow \boxed{\text{U}}$

$6680 - 1801 = \square \rightarrow \boxed{\text{P}}$

Scratch space:

CLUE 3
Fractions of a number

You work out what fraction of the cauldron potions have turned bright purple.

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

T									T													
14	23	37	36	39	15	8	38	14	23	35	37	19	19	37	15	10	36	15				

										T			
36	35	11	16	37	10	7	23	35	36	14	11	37	

$1/4 \text{ of } 56 = \square \rightarrow \boxed{\text{T}}$

$7/8 \text{ of } 40 = \square \rightarrow \boxed{\text{I}}$

$4/8 \text{ of } 74 = \square \rightarrow \boxed{\text{E}}$

$4/10 \text{ of } 40 = \square \rightarrow \boxed{\text{V}}$

$2/10 \text{ of } 40 = \square \rightarrow \boxed{\text{C}}$

$5/10 \text{ of } 14 = \square \rightarrow \boxed{\text{W}}$

$2/10 \text{ of } 190 = \square \rightarrow \boxed{\text{K}}$

$2/8 \text{ of } 156 = \square \rightarrow \boxed{\text{N}}$

$1/6 \text{ of } 138 = \square \rightarrow \boxed{\text{H}}$

$1/5 \text{ of } 55 = \square \rightarrow \boxed{\text{L}}$

$1/10 \text{ of } 100 = \square \rightarrow \boxed{\text{R}}$

$3/4 \text{ of } 48 = \square \rightarrow \boxed{\text{S}}$

$1/10 \text{ of } 190 = \square \rightarrow \boxed{\text{F}}$

$1/6 \text{ of } 90 = \square \rightarrow \boxed{\text{A}}$

Scratch space:

CLUE 4

Order of operations

You follow the step by step sequence on the carnival scoreboard to decode the secret code.

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

D																
34	54	57	54	52	57	69	17	54	51	24	49	77	50	34	79	

					D											
51	57	23	79	50	34	49	24	44	77	23	44	68	54	19	69	20

$14 + 5 \times 4 = \square \rightarrow \boxed{\text{D}}$

$10 \times 8 - 3 = \square \rightarrow \boxed{\text{U}}$

$11 + 3 \times 4 = \square \rightarrow \boxed{\text{R}}$

$19 + 6 \times 5 = \square \rightarrow \boxed{\text{O}}$

$10 \times 9 - 22 = \square \rightarrow \boxed{\text{L}}$

$7 \times 3 - 1 = \square \rightarrow \boxed{\text{G}}$

$7 \times 10 - 18 = \square \rightarrow \boxed{\text{C}}$

$7 \times 10 - 19 = \square \rightarrow \boxed{\text{S}}$

$5 + 4 \times 3 = \square \rightarrow \boxed{\text{V}}$

$48 + 3 \times 3 = \square \rightarrow \boxed{\text{T}}$

$5 \times 10 - 26 = \square \rightarrow \boxed{\text{F}}$

$10 \times 8 - 1 = \square \rightarrow \boxed{\text{A}}$

$7 + 6 \times 2 = \square \rightarrow \boxed{\text{W}}$

$24 + 4 \times 5 = \square \rightarrow \boxed{\text{P}}$

$11 \times 6 - 16 = \square \rightarrow \boxed{\text{N}}$

$48 + 3 \times 7 = \square \rightarrow \boxed{\text{I}}$

$12 \times 5 - 6 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

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

You split the spooky prize tokens evenly among the game booths to reveal the last witness.

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:

$12 \div 2 = \boxed{}$

$55 \div 11 = \boxed{}$

$144 \div 12 = \boxed{}$

$99 \div 11 = \boxed{}$

$70 \div 7 = \boxed{}$

$12 \div 4 = \boxed{}$

$8 \div 2 = \boxed{}$

$72 \div 9 = \boxed{}$

$84 \div 12 = \boxed{}$

$3 \div 3 = \boxed{}$

$66 \div 6 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain sent a candy swarm, then made a potion splash.
2. The villain shot a pumpkin blast, then raised a cobweb shield.
3. The villain shot a pumpkin blast, then made a potion splash.
4. The villain shot a pumpkin blast, then set a web trap.
5. The villain sent a candy swarm, then raised a cobweb shield.
6. The villain fired a glow shock, then let out a spooky howl.
7. The villain used shadow dash, then set a web trap.
8. The villain used shadow dash, then spread ghost fog.
9. The villain used shadow dash, then let out a spooky howl.
10. The villain fired a glow shock, then made a potion splash.
11. The villain called a bat summon, then set a web trap.
12. The villain fired a glow shock, then raised a cobweb shield.

Answer Key

The Midnight Pumpkin Caper

Culprit: Gideon Ghost

Pumpkin Blast · Cobweb Shield · Right Handed · Purple Wig · Silver Whistle

Trail: Start 21 → Clue 1 16 → Clue 2 14 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A WEB TRAP"

$3413 + 2765 = 6178$ (T) · $1158 + 1471 = 2629$ (L) · $1951 + 2286 = 4237$ (D) · $5368 + 3774 = 9142$ (O) · $2528 + 1866 = 4394$ (V) · $3059 + 3413 = 6472$ (N) · $2949 + 4663 = 7612$ (H) · $1258 + 1600 = 2858$ (R) · $3577 + 2039 = 5616$ (E) · $2490 + 5045 = 7535$ (U) · $2117 + 1009 = 3126$ (B) · $4527 + 4125 = 8652$ (W) · $1622 + 745 = 2367$ (P) · $4352 + 1893 = 6245$ (A) · $6420 + 3433 = 9853$ (S) · $5256 + 2979 = 8235$ (I)

Clue 2 (Subtraction): "THE SNOOPING SUSPECT WAS RIGHT HANDED"

$7950 - 3063 = 4887$ (T) · $2064 - 696 = 1368$ (E) · $8709 - 4501 = 4208$ (S) · $9519 - 3660 = 5859$ (G) · $8908 - 3506 = 5402$ (R) · $1858 - 756 = 1102$ (O) · $6118 - 780 = 5338$ (H) · $5223 - 85 = 5138$ (I) · $5759 - 4549 = 1210$ (C) · $6200 - 1147 = 5053$ (A) · $3458 - 683 = 2775$ (N) · $1558 - 519 = 1039$ (W) · $8588 - 1055 = 7533$ (D) · $8094 - 1840 = 6254$ (U) · $6680 - 1801 = 4879$ (P)

Clue 3 (Fractions of a number): "THE SNACK THIEF FEARS A SILVER WHISTLE"

$1/4$ of 56 = 14 (T) · $7/8$ of 40 = 35 (I) · $4/8$ of 74 = 37 (E) · $4/10$ of 40 = 16 (V) · $2/10$ of 40 = 8 (C) · $5/10$ of 14 = 7 (W) · $2/10$ of 190 = 38 (K) · $2/8$ of 156 = 39 (N) · $1/6$ of 138 = 23 (H) · $1/5$ of 55 = 11 (L) · $1/10$ of 100 = 10 (R) · $3/4$ of 48 = 36 (S) · $1/10$ of 190 = 19 (F) · $1/6$ of 90 = 15 (A)

Clue 4 (Order of operations): "DETECTIVES FOUND A STRAND OF PURPLE WIG"

$14 + 5 \times 4 = 34$ (D) · $10 \times 8 - 3 = 77$ (U) · $11 + 3 \times 4 = 23$ (R) · $19 + 6 \times 5 = 49$ (O) · $10 \times 9 - 22 = 68$ (L) · $7 \times 3 - 1 = 20$ (G) · $7 \times 10 - 18 = 52$ (C) · $7 \times 10 - 19 = 51$ (S) · $5 + 4 \times 3 = 17$ (V) · $48 + 3 \times 3 = 57$ (T) · $5 \times 10 - 26 = 24$ (F) · $10 \times 8 - 1 = 79$ (A) · $7 + 6 \times 2 = 19$ (W) · $24 + 4 \times 5 = 44$ (P) · $11 \times 6 - 16 = 50$ (N) · $48 + 3 \times 7 = 69$ (I) · $12 \times 5 - 6 = 54$ (E)

Clue 5 (Division facts (1-12)): surviving statement is box 2 → Gideon Ghost

$12 \div 2 = 6$ · $55 \div 11 = 5$ · $144 \div 12 = 12$ · $99 \div 11 = 9$ · $70 \div 7 = 10$ · $12 \div 4 = 3$ · $8 \div 2 = 4$ · $72 \div 9 = 8$ · $84 \div 12 = 7$ · $3 \div 3 = 1$ · $66 \div 6 = 11$