



The Great Pumpkin Patch Mystery

Grade 3 math · Addition, Rounding, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ Date: _____

Oh no! The Mayor of Halloween Town had their legendary Golden Pumpkin snatched right before the midnight parade! The Spook Squad has been called in to track down the sneaky thief before the moon sets.

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 Grave Gobbler is _____

Possible suspects

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

NAME	SPOOKY MAGIC	TRICKY GEAR	HANDEDNESS	WIG COLOR	SWEET WEAKNESS
Casper Ghost	ghostly whispers	cobweb trap	right handed	neon orange hair	sour candy
Wednesday Addams	ghostly whispers	pumpkin bomb	left handed	slime green hair	sour candy
Aggie Cromwell	floating lanterns	pumpkin bomb	right handed	slime green hair	bright light
Norman Babcock	shadow step	pumpkin bomb	left handed	slime green hair	bright light
Scooby Doo	ghostly whispers	pumpkin bomb	right handed	ebony black hair	sour candy
Coraline Jones	floating lanterns	pumpkin bomb	left handed	ebony black hair	sour candy
Mavis Dracula	floating lanterns	witch broom	right handed	slime green hair	sour candy
Zelda Spellman	floating lanterns	candy curse	right handed	slime green hair	sour candy
Winnie Sanderson	floating lanterns	bats swarm	right handed	slime green hair	sour candy
Shaggy Rogers	ghostly whispers	bats swarm	right handed	slime green hair	bright light
Lydia Deetz	glowing potions	witch broom	right handed	slime green hair	sour candy
Jack Skellington	glowing potions	bats swarm	right handed	slime green hair	sour candy
Mary Sanderson	shadow step	cobweb trap	right handed	ebony black hair	sour candy
Sabrina Spellman	shadow step	pumpkin bomb	right handed	ebony black hair	sour candy
Marnie Piper	ghostly whispers	candy curse	right handed	neon orange hair	sour candy
Ichabod Crane	floating lanterns	pumpkin bomb	right handed	slime green hair	sour candy
Pugsley Addams	shadow step	cobweb trap	right handed	ebony black hair	garlic breath
Kat Harvey	floating lanterns	pumpkin bomb	right handed	ebony black hair	bright light
Sarah Sanderson	glowing potions	candy curse	left handed	ebony black hair	sour candy
Beetlejuice	glowing potions	candy curse	left handed	slime green hair	sour candy
Velma Dinkley	ghostly whispers	cobweb trap	left handed	neon orange hair	garlic breath

CLUE 1 Addition

We need to count all the dropped candy corn in the haunted yard to find the first clue card. Let's add them up!

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

T																T
749	292	338	204	982	489	489	560	982	514	754	256	338	789	514	256	749

						T								
291	789	338	560	223	982	749	562	292	521	444	256	256	882	

$239 + 510 = \square \rightarrow$ T	$345 + 217 = \square \rightarrow$ C	$111 + 180 = \square \rightarrow$ U
$298 + 223 = \square \rightarrow$ B	$88 + 168 = \square \rightarrow$ O	$392 + 490 = \square \rightarrow$ M
$278 + 282 = \square \rightarrow$ A	$299 + 490 = \square \rightarrow$ S	$277 + 167 = \square \rightarrow$ R
$86 + 118 = \square \rightarrow$ V	$294 + 460 = \square \rightarrow$ D	$205 + 284 = \square \rightarrow$ L
$153 + 70 = \square \rightarrow$ W	$175 + 163 = \square \rightarrow$ E	$347 + 167 = \square \rightarrow$ N
$418 + 564 = \square \rightarrow$ I	$146 + 146 = \square \rightarrow$ H	

Scratch space:

CLUE 2

The spooky radar on our ghost tracker only shows rounded numbers. We must round the bat counts to trace the villain's path.

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

Diagram illustrating the arrangement of boxes and their associated values:

- Row 1:
 - Group 1: 5000, 70, 90 (T in 5000)
 - Group 2: 2000, 6000, 4000, 4000, 800, 6000, 50
 - Group 3: 60, 80, 6000, 5000, 90, 200 (T in 5000)
 - Group 4: 60, 6000, 5000, 70 (T in 5000)
- Row 2:
 - Group 1: 5000, 70, 90 (T in 5000)
 - Group 2: 80, 6000, 400, 70, 5000 (T in 5000)
 - Group 3: 70, 800, 50, 7000

Round 4,720 to the nearest thousand $\rightarrow$ **T**

Round 70 to the nearest ten $\rightarrow$ **H**

Round 754 to the nearest hundred $\rightarrow$ **A**

Round 77 to the nearest ten $\rightarrow$ **R**

Round 6,318 to the nearest thousand $\rightarrow$

Round 414 to the nearest hundred → **G**

Round 3,945 to the nearest thousand →

Round 196 to the nearest hundred $\rightarrow$ **S**

Round 6,617 to the nearest thousand → **D**

Round 1,608 to the nearest thousand $\rightarrow$ **V**

Round 46 to the nearest ten $\rightarrow$ **N**

Round 90 to the nearest ten → **E**

Round 60 to the nearest ten → **W**

Scratch space:

CLUE 3

Subtraction

The locked candy chest is losing its magic charge. Subtract the cracked pumpkins to reveal the secret code!

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

T																
214	494	232	168	193	420	420	443	193	511	851	494	302	193	511	787	851

743	302	742	678	851	742	854	302	707	443	511	285	591

$573 - 359 = \square \rightarrow \boxed{\text{T}}$

$511 - 209 = \square \rightarrow \boxed{\text{R}}$

$652 - 61 = \square \rightarrow \boxed{\text{Y}}$

$204 - 11 = \square \rightarrow \boxed{\text{I}}$

$821 - 378 = \square \rightarrow \boxed{\text{A}}$

$269 - 101 = \square \rightarrow \boxed{\text{V}}$

$676 - 165 = \square \rightarrow \boxed{\text{N}}$

$988 - 281 = \square \rightarrow \boxed{\text{C}}$

$928 - 185 = \square \rightarrow \boxed{\text{F}}$

$598 - 313 = \square \rightarrow \boxed{\text{D}}$

$568 - 148 = \square \rightarrow \boxed{\text{L}}$

$1215 - 361 = \square \rightarrow \boxed{\text{U}}$

$453 - 221 = \square \rightarrow \boxed{\text{E}}$

$994 - 252 = \square \rightarrow \boxed{\text{O}}$

$708 - 30 = \square \rightarrow \boxed{\text{M}}$

$1178 - 327 = \square \rightarrow \boxed{\text{S}}$

$792 - 5 = \square \rightarrow \boxed{\text{K}}$

$715 - 221 = \square \rightarrow \boxed{\text{H}}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

The witch left piles of magic potions lined up in perfect rows. Multiply the rows to unlock the next message.

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

W																	
84	7	55	6	96	3	108	1	40	60	22	8	16	1	4	60	21	7

132	9	7	7	3	27	42	60	9

$12 \times 7 = \square \rightarrow \boxed{\text{W}}$

$1 \times 1 = \square \rightarrow \boxed{\text{S}}$

$6 \times 7 = \square \rightarrow \boxed{\text{A}}$

$5 \times 12 = \square \rightarrow \boxed{\text{I}}$

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

$4 \times 2 = \square \rightarrow \boxed{\text{K}}$

$1 \times 4 = \square \rightarrow \boxed{\text{L}}$

$12 \times 9 = \square \rightarrow \boxed{\text{D}}$

$1 \times 3 = \square \rightarrow \boxed{\text{N}}$

$5 \times 11 = \square \rightarrow \boxed{\text{F}}$

$9 \times 1 = \square \rightarrow \boxed{\text{R}}$

$2 \times 11 = \square \rightarrow \boxed{\text{C}}$

$8 \times 5 = \square \rightarrow \boxed{\text{T}}$

$8 \times 2 = \square \rightarrow \boxed{\text{Y}}$

$7 \times 3 = \square \rightarrow \boxed{\text{M}}$

$12 \times 8 = \square \rightarrow \boxed{\text{U}}$

$9 \times 3 = \square \rightarrow \boxed{\text{H}}$

$7 \times 1 = \square \rightarrow \boxed{\text{E}}$

$6 \times 1 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

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

To open the heavy tomb door, we have to share the magic skeletons equally among the gates. Divide them up!

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:

$56 \div 8 = \boxed{}$

$6 \div 3 = \boxed{}$

$88 \div 8 = \boxed{}$

$24 \div 4 = \boxed{}$

$3 \div 3 = \boxed{}$

$63 \div 7 = \boxed{}$

$144 \div 12 = \boxed{}$

$3 \div 1 = \boxed{}$

$12 \div 3 = \boxed{}$

$90 \div 9 = \boxed{}$

$80 \div 10 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain conjured spooky illusions, then cast a tricky candy curse.
2. The villain scattered floating lanterns, then cast a tricky candy curse.
3. The villain vanished with shadow step, then fled on a fast witch broom.
4. The villain brewed glowing potions, then cast a tricky candy curse.
5. The villain brewed glowing potions, then called down a squeaking bats swarm.
6. The villain brewed glowing potions, then fled on a fast witch broom.
7. The villain scattered floating lanterns, then called down a squeaking bats swarm.
8. The villain summoned ghostly whispers, then called down a squeaking bats swarm.
9. The villain vanished with shadow step, then tangled the yard in a cobweb trap.
10. The villain brewed glowing potions, then flung a fiery pumpkin bomb.
11. The villain scattered floating lanterns, then flung a fiery pumpkin bomb.
12. The villain conjured spooky illusions, then tangled the yard in a cobweb trap.

Answer Key

The Great Pumpkin Patch Mystery

Culprit: Jack Skellington

glowing potions · bats swarm · right handed · slime green hair · sour candy

Trail: Start 21 → Clue 1 19 → Clue 2 13 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DOES NOT USE A WITCH BROOM"

$239 + 510 = 749$ (T) · $345 + 217 = 562$ (C) · $111 + 180 = 291$ (U) · $298 + 223 = 521$ (B) · $88 + 168 = 256$ (O) · $392 + 490 = 882$ (M) · $278 + 282 = 560$ (A) · $299 + 490 = 789$ (S) · $277 + 167 = 444$ (R) · $86 + 118 = 204$ (V) · $294 + 460 = 754$ (D) · $205 + 284 = 489$ (L) · $153 + 70 = 223$ (W) · $175 + 163 = 338$ (E) · $347 + 167 = 514$ (N) · $418 + 564 = 982$ (I) · $146 + 146 = 292$ (H)

Clue 2 (Rounding): "THE VILLAIN WRITES WITH THE RIGHT HAND"

Round 4,720 to the nearest thousand = 5000 (T) · Round 70 to the nearest ten = 70 (H) · Round 754 to the nearest hundred = 800 (A) · Round 77 to the nearest ten = 80 (R) · Round 6,318 to the nearest thousand = 6000 (I) · Round 414 to the nearest hundred = 400 (G) · Round 3,945 to the nearest thousand = 4000 (L) · Round 196 to the nearest hundred = 200 (S) · Round 6,617 to the nearest thousand = 7000 (D) · Round 1,608 to the nearest thousand = 2000 (V) · Round 46 to the nearest ten = 50 (N) · Round 90 to the nearest ten = 90 (E) · Round 60 to the nearest ten = 60 (W)

Clue 3 (Subtraction): "THE VILLAIN SHRINKS FROM SOUR CANDY"

$573 - 359 = 214$ (T) · $511 - 209 = 302$ (R) · $652 - 61 = 591$ (Y) · $204 - 11 = 193$ (I) · $821 - 378 = 443$ (A) · $269 - 101 = 168$ (V) · $676 - 165 = 511$ (N) · $988 - 281 = 707$ (C) · $928 - 185 = 743$ (F) · $598 - 313 = 285$ (D) · $568 - 148 = 420$ (L) · $1215 - 361 = 854$ (U) · $453 - 221 = 232$ (E) · $994 - 252 = 742$ (O) · $708 - 30 = 678$ (M) · $1178 - 327 = 851$ (S) · $792 - 5 = 787$ (K) · $715 - 221 = 494$ (H)

Clue 4 (Multiplication facts (1-12)): "WE FOUND STICKY SLIME GREEN HAIR"

$12 \times 7 = 84$ (W) · $1 \times 1 = 1$ (S) · $6 \times 7 = 42$ (A) · $5 \times 12 = 60$ (I) · $12 \times 11 = 132$ (G) · $4 \times 2 = 8$ (K) · $1 \times 4 = 4$ (L) · $12 \times 9 = 108$ (D) · $1 \times 3 = 3$ (N) · $5 \times 11 = 55$ (F) · $9 \times 1 = 9$ (R) · $2 \times 11 = 22$ (C) · $8 \times 5 = 40$ (T) · $8 \times 2 = 16$ (Y) · $7 \times 3 = 21$ (M) · $12 \times 8 = 96$ (U) · $9 \times 3 = 27$ (H) · $7 \times 1 = 7$ (E) · $6 \times 1 = 6$ (O)

Clue 5 (Division facts (1-12)): surviving statement is box 5 → Jack Skellington

$56 \div 8 = 7$ · $6 \div 3 = 2$ · $88 \div 8 = 11$ · $24 \div 4 = 6$ · $3 \div 3 = 1$ · $63 \div 7 = 9$ · $144 \div 12 = 12$ · $3 \div 1 = 3$ · $12 \div 3 = 4$ · $90 \div 9 = 10$ · $80 \div 10 = 8$