



The Case of the Missing Pumpkin

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

Detective: _____ **Date:** _____

Oh no! Someone ate Farmer Brown's giant prize pumpkin right before the big fair. A sneaky goat left messy hoofprints all over the patch. We must find the hungry 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 mischievous goat is _____

Possible suspects

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

NAME	SUPER TRICK	FARM GEAR	HOOF PRINT	COAT COLOR	FAVORITE TREAT
Coco	mud sliding	yellow tag	left hoofed	brown spots	sweet apples
Barnaby	fence chewing	green bow	left hoofed	black coat	green clover
Billy	hay balancing	purple ribbon	left hoofed	black coat	green clover
Pip	mud sliding	red collar	left hoofed	brown spots	green clover
Grover	high jumping	green bow	left hoofed	white wool	sweet apples
Penny	hay balancing	yellow tag	left hoofed	black coat	sweet apples
Buttercup	mud sliding	blue bandana	right hoofed	brown spots	crunchy oats
Sampson	loud bleating	red collar	left hoofed	white wool	sweet apples
Gizmo	fence chewing	red collar	left hoofed	black coat	green clover
Otis	high jumping	purple ribbon	right hoofed	black coat	green clover
Toby	mud sliding	red collar	left hoofed	white wool	green clover
Nanny	mud sliding	blue bandana	left hoofed	black coat	sweet apples
Giles	mud sliding	green bow	left hoofed	white wool	green clover
Hazel	loud bleating	purple ribbon	left hoofed	black coat	sweet apples
Peaches	fence chewing	purple ribbon	left hoofed	black coat	sweet apples
Clover	fence chewing	blue bandana	right hoofed	black coat	sweet apples
Tucker	high jumping	green bow	right hoofed	black coat	sweet apples
Waffles	fence chewing	blue bandana	right hoofed	white wool	sweet apples
Mabel	hay balancing	green bow	left hoofed	black coat	sweet apples
Daisy	high jumping	yellow tag	left hoofed	black coat	sweet apples
Bessie	fence chewing	blue bandana	left hoofed	black coat	crunchy oats

CLUE 1 Place value

The sheep count the hay bales. They group them into tens and ones. The number they make points to a secret map.

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

T			T											T				
99	91	23	99	91	32	23	52	27	54	23	92	58	54	99	35	23	56	29
56	61	95	29	61	38	23		29	32	67	67	54	58					

What number has 9 tens and 9 ones? → **T**

What number has 5 tens and 2 ones? → **F**

What number has 5 tens and 4 ones? → **O**

What number has 2 tens and 7 ones? → **D**

What number has 2 tens and 3 ones? → **E**

What number has 5 tens and 8 ones? → **N**

What number has 9 tens and 1 one? → **H**

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

What number has 6 tens and 1 one? → **P**

What number has 3 tens and 8 ones? → **L**

What number has 9 tens and 2 ones? → **S**

What number has 2 tens and 9 ones? → **R**

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

What number has 9 tens and 5 ones? → **U**

What number has 3 tens and 5 ones? → **W**

What number has 3 tens and 2 ones? → **I**

Scratch space:

CLUE 2

S

9 2 3 16 7 3 11 15 8 17 10 11 9 14 16 5 3 19 9

2 10 10 19 3 4

$5 + 4 = \boxed{} \rightarrow \boxed{\text{T}}$

$3 + 1 = \square \rightarrow \boxed{\mathbf{D}}$

$5 + 14 = \boxed{} \rightarrow \boxed{\text{F}}$

$1 + 1 = \square \rightarrow \boxed{\text{H}}$

$9 + 7 = \boxed{} \rightarrow \boxed{\text{S}}$

$8 + 7 = \boxed{} \rightarrow \boxed{\text{K}}$

$6 + 11 = \boxed{} \rightarrow \boxed{\text{G}}$

$2 + 3 = \boxed{} \rightarrow \boxed{\text{L}}$

$7 + 4 = \square \rightarrow \boxed{\mathbf{A}}$

$5 + 2 = \square \rightarrow \boxed{\mathbf{N}}$

$1 + 2 = \boxed{} \rightarrow \boxed{\text{E}}$

$8 + 6 = \square \rightarrow \boxed{\text{I}}$

$5 + 3 = \square \rightarrow \boxed{\text{Y}}$

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

S

CLUE 3

The ducks have a basket of apples. Some apples rolled away. Subtract the lost apples to read the dusty hoof print.

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

Diagram illustrating a sequence of numbers and their corresponding positions (represented by boxes) in two rows.

Top Row (15 boxes):

- Box 1: T
- Box 2: 12
- Box 3: 10
- Box 4: 11
- Box 5: 8
- Box 6: 6
- Box 7: 2
- Box 8: 2
- Box 9: 17
- Box 10: 6
- Box 11: 14
- Box 12: 2
- Box 13: 9
- Box 14: 8
- Box 15: 11
- Box 16: 19
- Box 17: 19
- Box 18: 7
- Box 19: 11
- Box 20: 11
- Box 21: T
- Box 22: 12

Bottom Row (6 boxes):

- Box 1: T
- Box 2: 17
- Box 3: 13
- Box 4: 13
- Box 5: 2
- Box 6: 11
- Box 7: 19

$10 - 8 = \boxed{} \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 4 Skip counting

We need to count the fence posts. We skip count by fives to reach the far pasture. A clue is carved on the last post.

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

W															
28	55	26	100	18	15	50	36	80	33	60	90	60	100	33	6
6	39	55	65	60	55	15	55								

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 → **W**

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

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **T**

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

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

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

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

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

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 → **N**

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 → **H**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **C**

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

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

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

Scratch space:

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

The food bowl is not full. We need to find the missing scoops to make ten. The missing number unlocks a locked diary.

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:

$3 + \underline{\quad} = 6$

$9 + \underline{\quad} = 10$

$1 + \underline{\quad} = 13$

$10 + \underline{\quad} = 21$

$1 + \underline{\quad} = 7$

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

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

$6 + \underline{\quad} = 13$

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

$9 + \underline{\quad} = 17$

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

Step 2 - cross out the sentence with each answer:

1. The villain balances a hay bale on their head, then straightens their green bow.
2. The villain slides through the wet mud, then snaps their red collar.
3. The villain slides through the wet mud, then waves their blue bandana.
4. The villain balances a hay bale on their head, then shakes their yellow tag.
5. The villain jumps over the high gate, then waves their blue bandana.
6. The villain chews a hole in the fence, then waves their blue bandana.
7. The villain chews a hole in the fence, then shakes their yellow tag.
8. The villain bleats a very loud song, then waves their blue bandana.
9. The villain balances a hay bale on their head, then polishes their purple ribbon.
10. The villain chews a hole in the fence, then polishes their purple ribbon.
11. The villain balances a hay bale on their head, then snaps their red collar.
12. The villain jumps over the high gate, then shakes their yellow tag.

Answer Key

The Case of the Missing Pumpkin

Culprit: Penny

hay balancing · yellow tag · left hoofed · black coat · sweet apples

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT WEAR A PURPLE RIBBON"

What number has 9 tens and 9 ones? = 99 (T) · What number has 5 tens and 2 ones? = 52 (F) · What number has 5 tens and 4 ones? = 54 (O) · What number has 2 tens and 7 ones? = 27 (D) · What number has 2 tens and 3 ones? = 23 (E) · What number has 5 tens and 8 ones? = 58 (N) · What number has 9 tens and 1 one? = 91 (H) · What number has 6 tens and 7 ones? = 67 (B) · What number has 6 tens and 1 one? = 61 (P) · What number has 3 tens and 8 ones? = 38 (L) · What number has 9 tens and 2 ones? = 92 (S) · What number has 2 tens and 9 ones? = 29 (R) · What number has 5 tens and 6 ones? = 56 (A) · What number has 9 tens and 5 ones? = 95 (U) · What number has 3 tens and 5 ones? = 35 (W) · What number has 3 tens and 2 ones? = 32 (I)

Clue 2 (Addition): "THE SNEAKY GOAT IS LEFT HOOFED"

$5 + 4 = 9$ (T) · $3 + 1 = 4$ (D) · $5 + 14 = 19$ (F) · $1 + 1 = 2$ (H) · $9 + 7 = 16$ (S) · $8 + 7 = 15$ (K) · $6 + 11 = 17$ (G) · $2 + 3 = 5$ (L) · $7 + 4 = 11$ (A) · $5 + 2 = 7$ (N) · $1 + 2 = 3$ (E) · $8 + 6 = 14$ (I) · $5 + 3 = 8$ (Y) · $5 + 5 = 10$ (O)

Clue 3 (Subtraction): "THE VILLAIN LOVES SWEET APPLES"

$15 - 3 = 12$ (T) · $19 - 5 = 14$ (N) · $20 - 1 = 19$ (S) · $12 - 6 = 6$ (I) · $17 - 7 = 10$ (H) · $19 - 8 = 11$ (E) · $10 - 2 = 8$ (V) · $18 - 5 = 13$ (P) · $18 - 9 = 9$ (O) · $19 - 2 = 17$ (A) · $8 - 1 = 7$ (W) · $10 - 8 = 2$ (L)

Clue 4 (Skip counting): "WE FOUND BLACK COAT AT THE SCENE"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (W) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (B) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (T) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 = 18 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, __, 110, 120 = 100 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (L) · Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 = 60 (C) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (F) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (K)

Clue 5 (Missing addends): surviving statement is box 4 → Penny

$3 + \underline{\quad} = 6 = 3$ · $9 + \underline{\quad} = 10 = 1$ · $1 + \underline{\quad} = 13 = 12$ · $10 + \underline{\quad} = 21 = 11$ · $1 + \underline{\quad} = 7 = 6$ · $4 + \underline{\quad} = 14 = 10$ · $4 + \underline{\quad} = 6 = 2$ · $6 + \underline{\quad} = 13 = 7$ · $4 + \underline{\quad} = 13 = 9$ · $9 + \underline{\quad} = 17 = 8$ · $7 + \underline{\quad} = 12 = 5$