



The Case of the Golden Carrot

Grade 2 math · Addition, Word problems, Place value, Subtraction, Missing addends · Reading level grades 3-4

Detective: _____ Date: _____

Oh no! The legendary Golden Carrot has been swiped from the royal greenhouse! The thief left behind muddy paw prints and a trail of sweet clover. We need to find the culprit before the Great Spring Feast!

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 bunny is _____

Possible suspects

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

NAME	JUMP STYLE	EAR TRICK	DOMINANT PAW	FUR PATTERN	SILLY FEAR
Buster Bunny	Tunnel Dig	Ribbon Bow	Left Pawed	Mocha Swirl	Rain Drops
Hazel	Zigzag Dash	Pocket Fold	Right Pawed	Silver Frost	Paper Bags
Skippy Bunny	Tunnel Dig	Ribbon Bow	Right Pawed	Silver Frost	Paper Bags
Pipkin	Zigzag Dash	Radar Listen	Right Pawed	Golden Spot	Rain Drops
Barnaby Bun	Zigzag Dash	Helicopter Spin	Left Pawed	Silver Frost	Paper Bags
Babs Bunny	Zigzag Dash	Radar Listen	Right Pawed	Silver Frost	Paper Bags
Cottontail	High Jump	Helicopter Spin	Left Pawed	Silver Frost	Paper Bags
Lola Bunny	Tunnel Dig	Ribbon Bow	Left Pawed	Golden Spot	Rain Drops
Mopsy Rabbit	High Jump	Radar Listen	Right Pawed	Mocha Swirl	Squeaky Toys
Bugs Bunny	Double Flip	Ribbon Bow	Left Pawed	Golden Spot	Paper Bags
Officer Judy	Zigzag Dash	Radar Listen	Right Pawed	Mocha Swirl	Paper Bags
Ruby Bunny	Double Flip	Helicopter Spin	Right Pawed	Silver Frost	Squeaky Toys
Roger Rabbit	High Jump	Wiggly Wave	Left Pawed	Silver Frost	Paper Bags
Professor Hopper	High Jump	Pocket Fold	Right Pawed	Silver Frost	Rain Drops
Daisy Whiskers	Double Flip	Helicopter Spin	Right Pawed	Mocha Swirl	Paper Bags
Benjamin Bunny	Double Flip	Radar Listen	Left Pawed	Mocha Swirl	Rain Drops
Flopsy Rabbit	Sonic Thump	Helicopter Spin	Right Pawed	Mocha Swirl	Rain Drops
Peter Rabbit	Double Flip	Radar Listen	Right Pawed	Silver Frost	Paper Bags
Thumper	Tunnel Dig	Helicopter Spin	Right Pawed	Silver Frost	Paper Bags
Buster Baxter	Zigzag Dash	Ribbon Bow	Right Pawed	Silver Frost	Rain Drops
Fiver	High Jump	Pocket Fold	Right Pawed	Golden Spot	Rain Drops

CLUE 1 Addition

Detective Barnaby counts the nibbled carrots left in the storage bin. Adding the rows of sweet roots reveals the first clue!

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

T			T											T			
92	62	28	92	62	75	28	65	50	23	28	88	45	23	92	47	88	28
					T												
90	23	68	33	28	92	65	23	64	50								

$36 + 56 = \square \rightarrow$ T	$42 + 33 = \square \rightarrow$ I	$36 + 26 = \square \rightarrow$ H
$21 + 24 = \square \rightarrow$ N	$55 + 35 = \square \rightarrow$ P	$8 + 15 = \square \rightarrow$ O
$21 + 43 = \square \rightarrow$ L	$14 + 19 = \square \rightarrow$ K	$46 + 19 = \square \rightarrow$ F
$14 + 14 = \square \rightarrow$ E	$16 + 31 = \square \rightarrow$ U	$21 + 29 = \square \rightarrow$ D
$36 + 32 = \square \rightarrow$ C	$45 + 43 = \square \rightarrow$ S	

Scratch space:

CLUE 2

Word problems

The suspect left a tricky note with a word puzzle about bunny hops. Let us solve the word problem to crack the code.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was R W E D .

39 16 23 9 22 7 13

There were 45 shiny garden trowels. 6 were used up. How many shiny garden trowels are left?

Answer: → R

Detective Barnaby found 4 sweet dandelions yesterday and 12 more today. How many sweet dandelions in all?

Answer: → I

There were 19 juicy clovers. 10 were used up. How many juicy clovers are left?

Answer: → H

There were 26 sweet dandelions. 4 were used up. How many sweet dandelions are left?

Answer: → T

Detective Barnaby found 5 wooden chew toys yesterday and 18 more today. How many wooden chew toys in all?

Answer: → G

Detective Barnaby found 2 shiny garden trowels yesterday and 5 more today. How many shiny garden trowels in all?

Answer: → P

There were 23 crunchy carrots. 10 were used up. How many crunchy carrots are left?

Answer: → A

Scratch space:

CLUE 3 Place value

A secret lock on the garden gate uses tens and ones. Look closely at the place value of the digits to open the clue box!

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

A											A						A	
94	59	18	38	70	93	36	96	42	69	94	69	61	59	47	94	42		
80	59	36	42	66	70	61	96	61	64	70	66	61	25					

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

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

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

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

What number has 9 tens and 3 ones? → **L**

What number has 3 tens and 6 ones? → **I**

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

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

What number has 1 ten and 8 ones? → **U**

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

What number has 8 tens and 0 ones? → **F**

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

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

What number has 7 tens and 0 ones? → **T**

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

What number has 4 tens and 2 ones? → **G**

Scratch space:

CLUE 4

Subtraction

We started with a full bag of clover seeds but some fell out. Subtracting the spilled seeds tells us which way the thief fled!

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

I					I												
56	19	43	85	19	56	41	48	71	44	47	44	64	19	26	47	62	44
64	67	26	88	71	70	64	64	44									

$82 - 26 = \square \rightarrow \boxed{\text{I}}$

$76 - 33 = \square \rightarrow \boxed{\text{P}}$

$96 - 32 = \square \rightarrow \boxed{\text{O}}$

$87 - 39 = \square \rightarrow \boxed{\text{V}}$

$24 - 5 = \square \rightarrow \boxed{\text{S}}$

$99 - 11 = \square \rightarrow \boxed{\text{H}}$

$53 - 27 = \square \rightarrow \boxed{\text{T}}$

$95 - 25 = \square \rightarrow \boxed{\text{D}}$

$99 - 32 = \square \rightarrow \boxed{\text{N}}$

$57 - 16 = \square \rightarrow \boxed{\text{L}}$

$82 - 35 = \square \rightarrow \boxed{\text{F}}$

$90 - 19 = \square \rightarrow \boxed{\text{E}}$

$92 - 7 = \square \rightarrow \boxed{\text{Y}}$

$72 - 10 = \square \rightarrow \boxed{\text{U}}$

$82 - 38 = \square \rightarrow \boxed{\text{R}}$

Scratch space:

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

The target weight on the scale needs more turnips to balance. Find the missing number to tip the scale and reveal the final secret!

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:

$1 + \underline{\quad} = 12$

$3 + \underline{\quad} = 15$

$5 + \underline{\quad} = 7$

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

$3 + \underline{\quad} = 13$

$3 + \underline{\quad} = 8$

$2 + \underline{\quad} = 9$

$4 + \underline{\quad} = 7$

$8 + \underline{\quad} = 17$

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

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

Step 2 - cross out the sentence with each answer:

1. The villain zigs and zags through the cabbage patch, then tucks their ears into a tight pocket fold.
2. The villain digs a quick tunnel under the wall, then ties their ears in a fancy ribbon bow.
3. The villain leaps over the garden fence, then uses helicopter ears to float away.
4. The villain flips over the sleeping dog, then listens with radar ears for the guards.
5. The villain leaps over the garden fence, then tucks their ears into a tight pocket fold.
6. The villain thumps the ground to shake the carrots, then listens with radar ears for the guards.
7. The villain digs a quick tunnel under the wall, then tucks their ears into a tight pocket fold.
8. The villain thumps the ground to shake the carrots, then tucks their ears into a tight pocket fold.
9. The villain flips over the sleeping dog, then tucks their ears into a tight pocket fold.
10. The villain digs a quick tunnel under the wall, then waves their wiggly ears to say goodbye.
11. The villain digs a quick tunnel under the wall, then uses helicopter ears to float away.
12. The villain zigs and zags through the cabbage patch, then listens with radar ears for the guards.

Answer Key

The Case of the Golden Carrot

Culprit: Peter Rabbit

Double Flip · Radar Listen · Right Pawed · Silver Frost · Paper Bags

Trail: Start 21 → Clue 1 18 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT USE POCKET FOLD"

$36 + 56 = 92$ (T) · $42 + 33 = 75$ (I) · $36 + 26 = 62$ (H) · $21 + 24 = 45$ (N) · $55 + 35 = 90$ (P) · $8 + 15 = 23$ (O) · $21 + 43 = 64$ (L) · $14 + 19 = 33$ (K) · $46 + 19 = 65$ (F) · $14 + 14 = 28$ (E) · $16 + 31 = 47$ (U) · $21 + 29 = 50$ (D) · $36 + 32 = 68$ (C) · $45 + 43 = 88$ (S)

Clue 2 (Word problems): "RIGHT PAWED"

There were 45 shiny garden trowels. 6 were used up. How many shiny garden trowels are left? = 39 (R) · Detective Barnaby found 4 sweet dandelions yesterday and 12 more today. How many sweet dandelions in all? = 16 (I) · There were 19 juicy clovers. 10 were used up. How many juicy clovers are left? = 9 (H) · There were 26 sweet dandelions. 4 were used up. How many sweet dandelions are left? = 22 (T) · Detective Barnaby found 5 wooden chew toys yesterday and 18 more today. How many wooden chew toys in all? = 23 (G) · Detective Barnaby found 2 shiny garden trowels yesterday and 5 more today. How many shiny garden trowels in all? = 7 (P) · There were 23 crunchy carrots. 10 were used up. How many crunchy carrots are left? = 13 (A)

Clue 3 (Place value): "A RUSTLING PAPER BAG FRIGHTENED THEM"

What number has 9 tens and 4 ones? = 94 (A) · What number has 6 tens and 1 one? = 61 (E) · What number has 6 tens and 9 ones? = 69 (P) · What number has 4 tens and 7 ones? = 47 (B) · What number has 9 tens and 3 ones? = 93 (L) · What number has 3 tens and 6 ones? = 36 (I) · What number has 3 tens and 8 ones? = 38 (S) · What number has 6 tens and 6 ones? = 66 (H) · What number has 1 ten and 8 ones? = 18 (U) · What number has 5 tens and 9 ones? = 59 (R) · What number has 8 tens and 0 ones? = 80 (F) · What number has 6 tens and 4 ones? = 64 (D) · What number has 2 tens and 5 ones? = 25 (M) · What number has 7 tens and 0 ones? = 70 (T) · What number has 9 tens and 6 ones? = 96 (N) · What number has 4 tens and 2 ones? = 42 (G)

Clue 4 (Subtraction): "I SPY SILVER FROST FUR ON THE DOOR"

$82 - 26 = 56$ (I) · $76 - 33 = 43$ (P) · $96 - 32 = 64$ (O) · $87 - 39 = 48$ (V) · $24 - 5 = 19$ (S) · $99 - 11 = 88$ (H) · $53 - 27 = 26$ (T) · $95 - 25 = 70$ (D) · $99 - 32 = 67$ (N) · $57 - 16 = 41$ (L) · $82 - 35 = 47$ (F) · $90 - 19 = 71$ (E) · $92 - 7 = 85$ (Y) · $72 - 10 = 62$ (U) · $82 - 38 = 44$ (R)

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

$1 + \underline{\quad} = 12$ = 11 · $3 + \underline{\quad} = 15$ = 12 · $5 + \underline{\quad} = 7$ = 2 · $5 + \underline{\quad} = 11$ = 6 · $3 + \underline{\quad} = 13$ = 10 · $3 + \underline{\quad} = 8$ = 5 · $2 + \underline{\quad} = 9$ = 7 · $4 + \underline{\quad} = 7$ = 3 · $8 + \underline{\quad} = 17$ = 9 · $9 + \underline{\quad} = 17$ = 8 · $1 + \underline{\quad} = 2$ = 1