

The Great Toontown Ink Mystery

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

Detective: _____ **Date:** _____

Oh no! Someone sneaked into the Toontown Studio Vault and took the Magic Paintbrush. The vault keeper needs your help to solve the mystery and find the 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 ink thief is _____

Possible suspects

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

NAME	MAGIC STYLE	STOLEN ITEM	WRITING HAND	HAIR COLOR	SCARED BY
Chip	sea shell charm	spinning wheel	right handed write	shiny black hair	smell of sweet honey
Gus	ice freeze magic	magic carpet	right handed write	bright blue hair	smell of sweet honey
Goofy	ice freeze magic	magic carpet	left handed write	bright blue hair	sound of a ticking clock
Scrooge	sea shell charm	golden crown	right handed write	bright blue hair	tickle of a feather
Oswald	pixie dust fly	magic carpet	right handed write	sunny yellow hair	smell of sweet honey
Ortensia	star wish glow	golden crown	right handed write	bright blue hair	sound of a ticking clock
Dewey	shadow sneak walk	spinning wheel	left handed write	sunny yellow hair	sound of a ticking clock
Huey	sea shell charm	poison apple	right handed write	bright blue hair	tickle of a feather
Mickey	sea shell charm	spinning wheel	left handed write	bright blue hair	sound of a ticking clock
Louie	shadow sneak walk	spinning wheel	right handed write	sunny yellow hair	sound of a ticking clock
Donald	pixie dust fly	spinning wheel	left handed write	sunny yellow hair	sound of a ticking clock
Jaq	pixie dust fly	golden crown	left handed write	sunny yellow hair	sound of a ticking clock
PJ	sea shell charm	spinning wheel	left handed write	sunny yellow hair	smell of sweet honey
Clarice	shadow sneak walk	glass slipper	left handed write	sunny yellow hair	smell of sweet honey
Max	star wish glow	magic carpet	right handed write	bright blue hair	tickle of a feather
Roxanne	shadow sneak walk	spinning wheel	left handed write	bright blue hair	smell of sweet honey
Clarabelle	ice freeze magic	poison apple	left handed write	sunny yellow hair	sound of a ticking clock
Dale	star wish glow	magic carpet	left handed write	sunny yellow hair	sound of a ticking clock
Ludwig	sea shell charm	golden crown	left handed write	bright blue hair	sound of a ticking clock
Horace	sea shell charm	magic carpet	right handed write	bright blue hair	tickle of a feather
Pluto	star wish glow	spinning wheel	left handed write	shiny black hair	smell of sweet honey

CLUE 1 Addition

The vault keeper counted the missing ink bottles. He added the red ink and blue ink together to find the code.

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

T			T																
8	3	9	8	3	7	9	6	12	2	9	14	13	2	8	3	4	10	9	
4	20	2	7	14	2	13	4	20	20	15	9								

$4 + 4 = \square \rightarrow$ T	$4 + 6 = \square \rightarrow$ V	$7 + 5 = \square \rightarrow$ D	$8 + 5 = \square \rightarrow$ N
$1 + 3 = \square \rightarrow$ A	$2 + 4 = \square \rightarrow$ F	$5 + 9 = \square \rightarrow$ S	$1 + 2 = \square \rightarrow$ H
$6 + 14 = \square \rightarrow$ P	$1 + 1 = \square \rightarrow$ O	$2 + 5 = \square \rightarrow$ I	$6 + 9 = \square \rightarrow$ L
$6 + 3 = \square \rightarrow$ E			

Scratch space:

CLUE 2

Subtraction

Mickey had a basket of shiny stars. A shadow took some away. Subtract the lost stars to read the next clue.

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

T							T				T					T	
19	9	13	11	8	12	2	19	13	8	18	19	9	6	1	13	14	19

9	6	16	3

$20 - 1 = \square \rightarrow \boxed{\text{T}}$

$20 - 4 = \square \rightarrow \boxed{\text{N}}$

$13 - 5 = \square \rightarrow \boxed{\text{W}}$

$20 - 8 = \square \rightarrow \boxed{\text{R}}$

$20 - 2 = \square \rightarrow \boxed{\text{I}}$

$4 - 1 = \square \rightarrow \boxed{\text{D}}$

$18 - 5 = \square \rightarrow \boxed{\text{E}}$

$19 - 8 = \square \rightarrow \boxed{\text{Y}}$

$11 - 5 = \square \rightarrow \boxed{\text{A}}$

$19 - 5 = \square \rightarrow \boxed{\text{F}}$

$11 - 2 = \square \rightarrow \boxed{\text{H}}$

$5 - 4 = \square \rightarrow \boxed{\text{L}}$

$6 - 4 = \square \rightarrow \boxed{\text{O}}$

Scratch space:

CLUE 3 Skip counting

We found a trail of magic footprints on the floor. Count them by twos to see where the sneaky thief ran next.

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

T			T											
90	130	25	90	50	21	140	50	8	33	21	70	16	21	140

						T			T				
27	21	45	14	25	39	90	130	25	90	130	50	25	10

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

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

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **R**

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **H**

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 → **E**

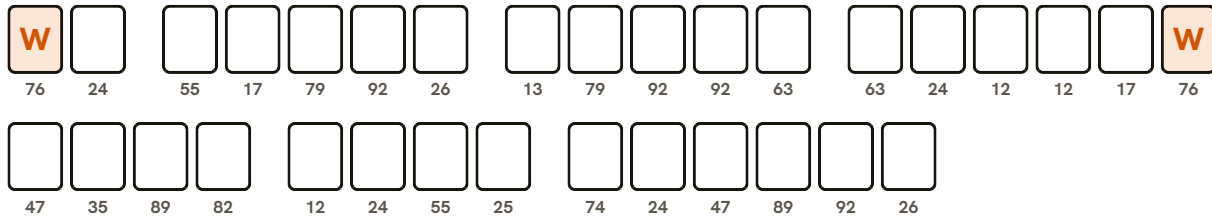
Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **G**

Scratch space:

CLUE 4 Place value

The vault door lock has a secret grid. Look at the tens and ones blocks to unlock the paper hidden inside.

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



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

What number has 1 ten and 2 ones? → **L**

What number has 7 tens and 9 ones? → **U**

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

What number has 1 ten and 3 ones? → **S**

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

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

What number has 2 tens and 6 ones? → **D**

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

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

What number has 8 tens and 9 ones? → **I**

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

What number has 1 ten and 7 ones? → **O**

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

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

What number has 8 tens and 2 ones? → **R**

Scratch space:

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

Donald needs ten magic feathers to fly his big kite. He has seven. Find how many more he needs to get the final clue.

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:

$7 + \underline{\quad} = 8$

$8 + \underline{\quad} = 10$

$1 + \underline{\quad} = 6$

$9 + \underline{\quad} = 18$

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

$6 + \underline{\quad} = 14$

$3 + \underline{\quad} = 9$

$6 + \underline{\quad} = 17$

$10 + \underline{\quad} = 17$

$7 + \underline{\quad} = 11$

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

Step 2 - cross out the sentence with each answer:

1. The villain slid through the shadows to sneak inside, then tripped over a dusty spinning wheel.
2. The villain used a glowing star wish to open the lock, then zoomed away on a magic carpet.
3. The villain slid through the shadows to sneak inside, then left behind a sparkly glass slipper.
4. The villain charmed the security keys with a sea shell, then dropped a shiny poison apple.
5. The villain flew past the guards with pixie dust, then escaped wearing a golden crown.
6. The villain charmed the security keys with a sea shell, then left behind a sparkly glass slipper.
7. The villain froze the vault doors with ice magic, then zoomed away on a magic carpet.
8. The villain flew past the guards with pixie dust, then dropped a shiny poison apple.
9. The villain froze the vault doors with ice magic, then tripped over a dusty spinning wheel.
10. The villain charmed the security keys with a sea shell, then zoomed away on a magic carpet.
11. The villain used a glowing star wish to open the lock, then tripped over a dusty spinning wheel.
12. The villain flew past the guards with pixie dust, then tripped over a dusty spinning wheel.

Answer Key

The Great Toontown Ink Mystery

Culprit: Donald

pixie dust fly · spinning wheel · left handed write · sunny yellow hair · sound of a ticking clock

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT HAVE A POISON APPLE"

$4 + 4 = 8$ (T) · $4 + 6 = 10$ (V) · $7 + 5 = 12$ (D) · $8 + 5 = 13$ (N) · $1 + 3 = 4$ (A) · $2 + 4 = 6$ (F) · $5 + 9 = 14$ (S) · $1 + 2 = 3$ (H) · $6 + 14 = 20$ (P) · $1 + 1 = 2$ (O) · $2 + 5 = 7$ (I) · $6 + 9 = 15$ (L) · $6 + 3 = 9$ (E)

Clue 2 (Subtraction): "THEY WROTE WITH A LEFT HAND"

$20 - 1 = 19$ (T) · $20 - 4 = 16$ (N) · $13 - 5 = 8$ (W) · $20 - 8 = 12$ (R) · $20 - 2 = 18$ (I) · $4 - 1 = 3$ (D) · $18 - 5 = 13$ (E) · $19 - 8 = 11$ (Y) · $11 - 5 = 6$ (A) · $19 - 5 = 14$ (F) · $11 - 2 = 9$ (H) · $5 - 4 = 1$ (L) · $6 - 4 = 2$ (O)

Clue 3 (Skip counting): "THE TICKING CLOCK SCARED THE THIEF"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, __, 100, 110 = 90 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (F) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (S) · Skip-count by 2s. Fill the blank: 2, 4, 6, __, 10, 12 = 8 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (R) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (C) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (I) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (K) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, __, 30, 35 = 25 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (G)

Clue 4 (Place value): "WE FOUND SUNNY YELLOW HAIR LEFT BEHIND"

What number has 7 tens and 6 ones? = 76 (W) · What number has 1 ten and 2 ones? = 12 (L) · What number has 7 tens and 9 ones? = 79 (U) · What number has 3 tens and 5 ones? = 35 (A) · What number has 1 ten and 3 ones? = 13 (S) · What number has 5 tens and 5 ones? = 55 (F) · What number has 9 tens and 2 ones? = 92 (N) · What number has 2 tens and 6 ones? = 26 (D) · What number has 2 tens and 5 ones? = 25 (T) · What number has 4 tens and 7 ones? = 47 (H) · What number has 8 tens and 9 ones? = 89 (I) · What number has 7 tens and 4 ones? = 74 (B) · What number has 1 ten and 7 ones? = 17 (O) · What number has 6 tens and 3 ones? = 63 (Y) · What number has 2 tens and 4 ones? = 24 (E) · What number has 8 tens and 2 ones? = 82 (R)

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

$7 + \underline{\quad} = 8 = 1$ · $8 + \underline{\quad} = 10 = 2$ · $1 + \underline{\quad} = 6 = 5$ · $9 + \underline{\quad} = 18 = 9$ · $4 + \underline{\quad} = 7 = 3$ · $6 + \underline{\quad} = 14 = 8$ · $3 + \underline{\quad} = 9 = 6$ · $6 + \underline{\quad} = 17 = 11$ · $10 + \underline{\quad} = 17 = 7$ · $7 + \underline{\quad} = 11 = 4$ · $4 + \underline{\quad} = 14 = 10$