



The Case of the Missing Toy Robot

Grade 1 math · Addition, Subtraction, Multiplication, Skip counting, Division · Reading level grades 1-2

Detective: _____ Date: _____

Oh no! The club's favorite toy robot, Sparky, is missing from the treehouse. A sneaky thief took him! The Treehouse Club needs your help. Let us find the clues and get Sparky back!

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 toy thief is _____

Possible suspects

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

NAME	PLAYGROUND SKILL	TOY GEAR	WRITING HAND	HAIR COLOR	BIGGEST FEAR
Nora	fast runner	super magnet	right-handed	pink hair	loud barking
Luke	quick slider	bubble blaster	right-handed	pink hair	loud barking
Ella	loud whistler	laser boots	right-handed	blue hair	noisy music
Jax	loud whistler	glow ring	right-handed	blue hair	noisy music
Finn	quick slider	bubble blaster	right-handed	green hair	slippery slides
Ben	loud whistler	super magnet	left-handed	pink hair	loud barking
Liam	good climber	super magnet	left-handed	green hair	noisy music
Maya	high jumper	super magnet	right-handed	pink hair	noisy music
Mia	fast runner	glow ring	right-handed	blue hair	noisy music
Abby	loud whistler	sparkly cape	right-handed	green hair	noisy music
Zoe	high jumper	laser boots	left-handed	blue hair	noisy music
Lily	quick slider	sparkly cape	right-handed	blue hair	noisy music
Toby	fast runner	sparkly cape	right-handed	pink hair	noisy music
Ruby	loud whistler	super magnet	right-handed	blue hair	slippery slides
Cole	high jumper	glow ring	right-handed	blue hair	noisy music
Iris	high jumper	sparkly cape	left-handed	blue hair	noisy music
Leo	fast runner	laser boots	left-handed	green hair	noisy music
Sam	good climber	glow ring	right-handed	pink hair	noisy music
Owen	fast runner	laser boots	left-handed	blue hair	loud barking
Ava	good climber	laser boots	left-handed	blue hair	slippery slides
Chloe	quick slider	glow ring	right-handed	pink hair	slippery slides

CLUE 1 Addition

We need to count all the bright toy blocks on the floor. Let us add them up to find the secret path.

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

T			T											T				
19	12	7	19	12	16	7	3	9	8	7	5	15	8	19	20	7	11	13
											T							
4	11	5	7	13	10	8	8	19	5									

$7 + 12 = \square \rightarrow$ T	$7 + 9 = \square \rightarrow$ I	$6 + 9 = \square \rightarrow$ N	$4 + 1 = \square \rightarrow$ S
$14 + 6 = \square \rightarrow$ W	$7 + 5 = \square \rightarrow$ H	$8 + 3 = \square \rightarrow$ A	$3 + 5 = \square \rightarrow$ O
$6 + 3 = \square \rightarrow$ D	$7 + 6 = \square \rightarrow$ R	$3 + 7 = \square \rightarrow$ B	$5 + 2 = \square \rightarrow$ E
$1 + 2 = \square \rightarrow$ F	$3 + 1 = \square \rightarrow$ L		

Scratch space:

CLUE 2

Subtraction

Some map pieces are gone. We had ten but some blew away. Subtract to find how many we have left.

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

T									T				T						
6	5	10	17	15	17	1	10	4	6	3	9	16	6	10	17	3	16	6	5
T									T										
6	5	10	16	9	9	16	18	5	6	5	8	7	2						

$8 - 2 = \square \rightarrow \boxed{\text{T}}$

$9 - 1 = \square \rightarrow \boxed{\text{A}}$

$16 - 1 = \square \rightarrow \boxed{\text{U}}$

$2 - 1 = \square \rightarrow \boxed{\text{P}}$

$15 - 5 = \square \rightarrow \boxed{\text{E}}$

$12 - 8 = \square \rightarrow \boxed{\text{C}}$

$11 - 8 = \square \rightarrow \boxed{\text{W}}$

$11 - 4 = \square \rightarrow \boxed{\text{N}}$

$16 - 7 = \square \rightarrow \boxed{\text{R}}$

$9 - 4 = \square \rightarrow \boxed{\text{H}}$

$17 - 1 = \square \rightarrow \boxed{\text{I}}$

$19 - 2 = \square \rightarrow \boxed{\text{S}}$

$19 - 1 = \square \rightarrow \boxed{\text{G}}$

$8 - 6 = \square \rightarrow \boxed{\text{D}}$

Scratch space:

CLUE 3

Multiplication facts (1-12)

There are boxes of juice. Each box has three cups. Let us multiply the rows to see the total.

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

T																	
21	77	121	49	9	49	64	121	22	21	66	54	49	100	54	10	121	66

T											
21	77	121	100	55	9	66	60	9	49	54	22

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

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

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

$6 \times 11 = \square \rightarrow \boxed{\text{D}}$

$11 \times 7 = \square \rightarrow \boxed{\text{H}}$

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

$8 \times 8 = \square \rightarrow \boxed{\text{P}}$

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

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

$9 \times 6 = \square \rightarrow \boxed{\text{I}}$

$10 \times 6 = \square \rightarrow \boxed{\text{M}}$

$1 \times 10 = \square \rightarrow \boxed{\text{K}}$

$11 \times 11 = \square \rightarrow \boxed{\text{E}}$

Scratch space:

CLUE 4 Skip counting

The sneaky footsteps go by twos. We must skip count the steps in the mud to follow the trail.

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

W														
120	60	18	28	14	30	22	39	15	14	60	140	42	9	27
80	140	60	45	35	60	30	60							

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 → **W**

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

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

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

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

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

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

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

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

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

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **A**

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

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **I**

Scratch space:

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

We have twelve cookies to share equally. Divide them among our friends to get the next 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:

$50 \div 10 = \square$

$40 \div 10 = \square$

$56 \div 7 = \square$

$27 \div 9 = \square$

$36 \div 6 = \square$

$50 \div 5 = \square$

$10 \div 10 = \square$

$84 \div 12 = \square$

$27 \div 3 = \square$

$144 \div 12 = \square$

$4 \div 2 = \square$

Step 2 - cross out the sentence with each answer:

1. The villain slid down the spiral slide, then flashed a glowing green ring.
2. The villain blew a shiny silver whistle, then shot a stream of giant bubbles.
3. The villain hopped over the sandbox, then stuck a magnet to the swings.
4. The villain slid down the spiral slide, then dropped a sparkly toy cape.
5. The villain blew a shiny silver whistle, then flashed a glowing green ring.
6. The villain blew a shiny silver whistle, then dropped a sparkly toy cape.
7. The villain ran past the swing set, then shot a stream of giant bubbles.
8. The villain ran past the swing set, then flashed a glowing green ring.
9. The villain slid down the spiral slide, then stuck a magnet to the swings.
10. The villain climbed up the big ladder, then stuck a magnet to the swings.
11. The villain hopped over the sandbox, then flashed a glowing green ring.
12. The villain ran past the swing set, then stuck a magnet to the swings.

Answer Key

The Case of the Missing Toy Robot

Culprit: Cole

high jumper · glow ring · right-handed · blue hair · noisy music

Trail: Start 21 → Clue 1 16 → Clue 2 13 → Clue 3 8 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE THIEF DOES NOT WEAR LASER BOOTS"

$7 + 12 = 19$ (T) · $7 + 9 = 16$ (I) · $6 + 9 = 15$ (N) · $4 + 1 = 5$ (S) · $14 + 6 = 20$ (W) · $7 + 5 = 12$ (H) · $8 + 3 = 11$ (A) · $3 + 5 = 8$ (O) · $6 + 3 = 9$ (D) · $7 + 6 = 13$ (R) · $3 + 7 = 10$ (B) · $5 + 2 = 7$ (E) · $1 + 2 = 3$ (F) · $3 + 1 = 4$ (L)

Clue 2 (Subtraction): "THE SUSPECT WRITES WITH THEIR RIGHT HAND"

$8 - 2 = 6$ (T) · $9 - 1 = 8$ (A) · $16 - 1 = 15$ (U) · $2 - 1 = 1$ (P) · $15 - 5 = 10$ (E) · $12 - 8 = 4$ (C) · $11 - 8 = 3$ (W) · $11 - 4 = 7$ (N) · $16 - 7 = 9$ (R) · $9 - 4 = 5$ (H) · $17 - 1 = 16$ (I) · $19 - 2 = 17$ (S) · $19 - 1 = 18$ (G) · $8 - 6 = 2$ (D)

Clue 3 (Multiplication facts (1-12)): "THE SUSPECT DISLIKED THE LOUD MUSIC"

$3 \times 7 = 21$ (T) · $9 \times 1 = 9$ (U) · $11 \times 5 = 55$ (O) · $6 \times 11 = 66$ (D) · $11 \times 7 = 77$ (H) · $7 \times 7 = 49$ (S) · $8 \times 8 = 64$ (P) · $10 \times 10 = 100$ (L) · $2 \times 11 = 22$ (C) · $9 \times 6 = 54$ (I) · $10 \times 6 = 60$ (M) · $1 \times 10 = 10$ (K) · $11 \times 11 = 121$ (E)

Clue 4 (Skip counting): "WE FOUND BLUE HAIR AT THE SCENE"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (W) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (F) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (C) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, __, 24, 26 = 22 (D) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (T) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (B) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (H) · Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 = 15 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, __, 33, 36 = 30 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, __, 30, 33 = 27 (R) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (I)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Cole

$50 \div 10 = 5$ · $40 \div 10 = 4$ · $56 \div 7 = 8$ · $27 \div 9 = 3$ · $36 \div 6 = 6$ · $50 \div 5 = 10$ · $10 \div 10 = 1$ · $84 \div 12 = 7$ · $27 \div 3 = 9$ · $144 \div 12 = 12$ · $4 \div 2 = 2$