

The Great Toy Room Mystery

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

Detective: _____ Date: _____

Oh no! Someone hid the super-duper golden block in the playroom! Spidey needs your help to find out who did it so we can finish building our big tower.

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 sneaky snatcher is _____

Possible suspects

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

NAME	SPIDEY GEAR	SUPER GADGET	FAVORITE HAND	HERO MASK COLOR	TOY DISTRACTION
Otto	Glider Wings	Bouncy Ball	Right Handed	Neon Green Mask	Squeaky Duck
Steve	Glider Wings	Bubble Blaster	Left Handed	Neon Green Mask	Squeaky Duck
Kamala	Web Shooter	Flashlight Badge	Left Handed	Deep Blue Mask	Squeaky Duck
Gwen	Spider Drone	Laser Pointer	Left Handed	Bright Red Mask	Plush Teddy Bear
Anya	Sticky Gloves	Bouncy Ball	Left Handed	Deep Blue Mask	Squeaky Duck
Tchalla	Web Shooter	Bouncy Ball	Left Handed	Neon Green Mask	Squeaky Duck
Bruce	Sticky Gloves	Flashlight Badge	Left Handed	Deep Blue Mask	Squeaky Duck
Rhino	Sticky Gloves	Bouncy Ball	Left Handed	Deep Blue Mask	Plush Teddy Bear
Clint	Web Shooter	Flashlight Badge	Right Handed	Deep Blue Mask	Squeaky Duck
Tony	Climbing Boots	Bouncy Ball	Right Handed	Bright Red Mask	Plush Teddy Bear
Aunt May	Spider Drone	Laser Pointer	Left Handed	Deep Blue Mask	Plush Teddy Bear
Felicia	Glider Wings	Laser Pointer	Right Handed	Deep Blue Mask	Shiny Cooper Toy
Peter	Climbing Boots	Flashlight Badge	Left Handed	Deep Blue Mask	Plush Teddy Bear
Gobby	Web Shooter	Bouncy Ball	Left Handed	Deep Blue Mask	Plush Teddy Bear
Sam	Spider Drone	Laser Pointer	Left Handed	Deep Blue Mask	Squeaky Duck
Miles	Spider Drone	Flashlight Badge	Left Handed	Deep Blue Mask	Shiny Cooper Toy
Bucky	Glider Wings	Glow Sticker	Left Handed	Deep Blue Mask	Squeaky Duck
Electro	Spider Drone	Bouncy Ball	Left Handed	Deep Blue Mask	Shiny Cooper Toy
Loki	Glider Wings	Laser Pointer	Left Handed	Bright Red Mask	Plush Teddy Bear
Nat	Sticky Gloves	Flashlight Badge	Left Handed	Neon Green Mask	Shiny Cooper Toy
Shuri	Spider Drone	Bouncy Ball	Left Handed	Bright Red Mask	Plush Teddy Bear

CLUE 1

Spin and Ghosty are counting up their super web badges. Let us add them all together to unlock our very first clue.

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

Diagram showing two rows of boxes with numbers and a 'T' marker. The top row has 18 boxes with numbers 4, 13, 11, 3, 19, 11, 20, 12, 9, 3, 19, 20, 4, 8, 13, 11, 16, 13, 20, 3. The bottom row has 12 boxes with numbers 19, 2, 5, 18, 2, 15, 3, 4, 14, 8, 12, 11, 16. The 'T' marker is in the 13th box of the top row and the 8th box of the bottom row.

$2 + 2 = \square \rightarrow \boxed{\mathbf{T}}$

$6 + 3 = \square \rightarrow \boxed{\text{Y}}$

$4 + 11 = \boxed{} \rightarrow \boxed{\mathbf{W}}$

$1 + 2 = \boxed{} \rightarrow \boxed{\mathbf{S}}$

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

$6 + 6 = \square \rightarrow \boxed{\text{K}}$

$12 + 8 = \square \rightarrow \boxed{\mathbf{A}}$

$6 + 13 = \boxed{} \rightarrow \boxed{\text{N}}$

1 + 1 = →

$10 + 4 = \boxed{} \rightarrow \boxed{\text{I}}$

$12 + 4 = \boxed{} \rightarrow \boxed{\text{R}}$

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

$3 + 2 = \square \rightarrow \boxed{\mathbf{G}}$

$8 + 3 = \boxed{} \rightarrow \boxed{\text{E}}$

$4 + 4 = \square \rightarrow \boxed{\text{C}}$

Scratch space:

CLUE 2 Subtraction

Oh look! Some toy cars fell off the ramp. If we subtract the missing ones, we will get the secret number for clue two.

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

T															
18	6	3	7	15	3	13	4	10	8	11	3	9	7	3	7

T								T				
18	6	3	12	5	19	3	8	18	6	13	15	14

$19 - 1 = \square \rightarrow$ T	$16 - 7 = \square \rightarrow$ U	$10 - 4 = \square \rightarrow$ H	
$17 - 2 = \square \rightarrow$ N	$11 - 6 = \square \rightarrow$ R	$6 - 3 = \square \rightarrow$ E	$7 - 3 = \square \rightarrow$ K
$14 - 3 = \square \rightarrow$ O	$12 - 5 = \square \rightarrow$ S	$20 - 1 = \square \rightarrow$ L	
$17 - 3 = \square \rightarrow$ D	$15 - 7 = \square \rightarrow$ F	$14 - 1 = \square \rightarrow$ A	
$18 - 6 = \square \rightarrow$ I	$15 - 5 = \square \rightarrow$ Y		

Scratch space:

CLUE 3 Skip counting

We see a line of spider bots. Let us skip count their tiny boots by twos to find the next cool lead.

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

T																
110	45	16	120	70	16	50	36	21	140	18	16	33	18	80	16	120

T													
110	45	16	120	65	26	16	50	36	21	60	26	9	36

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

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

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

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

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

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

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 → **N**

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

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

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

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

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

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

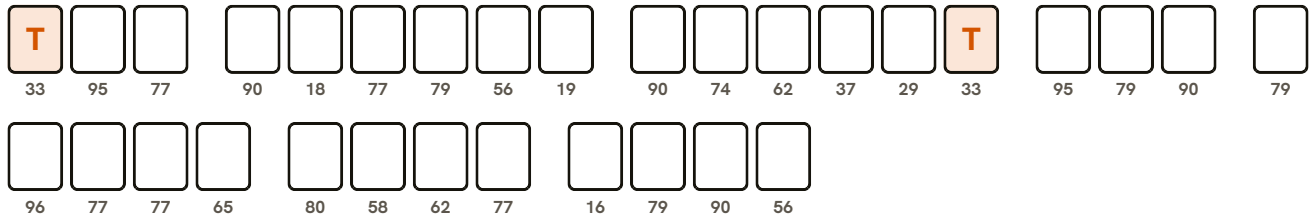
Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 → **A**

Scratch space:

CLUE 4 Place value

Look at the star stickers! Count the big bundles of ten and the extra ones to see what place value tells us.

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



What number has 3 tens and 3 ones? → **T**

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

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

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

What number has 1 ten and 6 ones? → **M**

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

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

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

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

What number has 7 tens and 7 ones? → **E**

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

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

What number has 3 tens and 7 ones? → **I**

What number has 9 tens and 0 ones? → **S**

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

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

What number has 1 ten and 9 ones? → **Y**

Scratch space:

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

We need ten red blocks to finish the bridge, but we only have some. Let us find the missing number to get the last 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:

$8 + \underline{\quad} = 13$

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

$8 + \underline{\quad} = 12$

$4 + \underline{\quad} = 15$

$6 + \underline{\quad} = 8$

$6 + \underline{\quad} = 15$

$3 + \underline{\quad} = 4$

$1 + \underline{\quad} = 11$

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

$7 + \underline{\quad} = 10$

$1 + \underline{\quad} = 9$

Step 2 - cross out the sentence with each answer:

1. The villain zoomed across the room with wings, then bounced a super ball into the cubby.
2. The villain zoomed across the room with wings, then shot bubbles all over the nap mats.
3. The villain flew a spider drone to the shelf, then shot bubbles all over the nap mats.
4. The villain climbed the chalkboard with gloves, then shined a flashlight badge on the floor.
5. The villain shot a sticky web onto the slide, then shined a flashlight badge on the floor.
6. The villain flew a spider drone to the shelf, then left a glowing sticker on the wall.
7. The villain climbed the chalkboard with gloves, then bounced a super ball into the cubby.
8. The villain stomped up the wall with boots, then shot bubbles all over the nap mats.
9. The villain flew a spider drone to the shelf, then bounced a super ball into the cubby.
10. The villain zoomed across the room with wings, then shined a flashlight badge on the floor.
11. The villain stomped up the wall with boots, then pointed a laser light at the ceiling.
12. The villain flew a spider drone to the shelf, then pointed a laser light at the ceiling.

Answer Key

The Great Toy Room Mystery

Culprit: Anya

Sticky Gloves · Bouncy Ball · Left Handed · Deep Blue Mask · Squeaky Duck

Trail: Start 21 → Clue 1 20 → Clue 2 16 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE SNEAKY SNATCHER HAS NO GLOW STICKER"

$2 + 2 = 4$ (T) · $6 + 3 = 9$ (Y) · $4 + 11 = 15$ (W) · $1 + 2 = 3$ (S) · $9 + 4 = 13$ (H) · $6 + 6 = 12$ (K) · $12 + 8 = 20$ (A) · $6 + 13 = 19$ (N) · $1 + 1 = 2$ (O) · $10 + 4 = 14$ (I) · $12 + 4 = 16$ (R) · $10 + 8 = 18$ (L) · $3 + 2 = 5$ (G) · $8 + 3 = 11$ (E) · $4 + 4 = 8$ (C)

Clue 2 (Subtraction): "THE SNEAKY FOE USES THEIR LEFT HAND"

$19 - 1 = 18$ (T) · $16 - 7 = 9$ (U) · $10 - 4 = 6$ (H) · $17 - 2 = 15$ (N) · $11 - 6 = 5$ (R) · $6 - 3 = 3$ (E) · $7 - 3 = 4$ (K) · $14 - 3 = 11$ (O) · $12 - 5 = 7$ (S) · $20 - 1 = 19$ (L) · $17 - 3 = 14$ (D) · $15 - 7 = 8$ (F) · $14 - 1 = 13$ (A) · $18 - 6 = 12$ (I) · $15 - 5 = 10$ (Y)

Clue 3 (Skip counting): "THE SNEAKY FOE LOVES THE SQUEAKY DUCK"

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (Q) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (H) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, __, 90, 100 = 80 (V) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, __, 130, 140 = 120 (S) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, __, 75, 80 = 70 (N) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (L) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (U) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (C) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (K) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (Y) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (A)

Clue 4 (Place value): "THE SNEAKY SQUIRT HAS A DEEP BLUE MASK"

What number has 3 tens and 3 ones? = 33 (T) · What number has 5 tens and 6 ones? = 56 (K) · What number has 6 tens and 5 ones? = 65 (P) · What number has 1 ten and 8 ones? = 18 (N) · What number has 1 ten and 6 ones? = 16 (M) · What number has 2 tens and 9 ones? = 29 (R) · What number has 9 tens and 5 ones? = 95 (H) · What number has 7 tens and 9 ones? = 79 (A) · What number has 8 tens and 0 ones? = 80 (B) · What number has 7 tens and 7 ones? = 77 (E) · What number has 5 tens and 8 ones? = 58 (L) · What number has 9 tens and 6 ones? = 96 (D) · What number has 3 tens and 7 ones? = 37 (I) · What number has 9 tens and 0 ones? = 90 (S) · What number has 6 tens and 2 ones? = 62 (U) · What number has 7 tens and 4 ones? = 74 (Q) · What number has 1 ten and 9 ones? = 19 (Y)

Clue 5 (Missing addends): surviving statement is box 7 → Anya

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