

The Great Toy Room Mix-Up

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

Detective: _____ Date: _____

Someone scrambled all the instructions in Brick City! Teddy and Margot need your help to find the Brick Bandit who mixed up the lego boxes before the big building contest starts.

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 Brick Bandit is _____

Possible suspects

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

NAME	LEGO TOOL	SPECIAL GEAR	FIGURE TYPE	HAIR STYLE	DISTRACTION
Bob	Brick Launcher	Plastic Shield	Girl Fig	Spiky Hair	Soft Carpet
Leo	Baseplate Grabber	Jetpack Shoes	Boy Fig	Ponytail	Soft Carpet
Margot	Mega Sorter	Plastic Shield	Boy Fig	Ponytail	Soft Carpet
Amy	Color Changer	Laser Goggles	Boy Fig	Spiky Hair	Soft Carpet
Meg	Baseplate Grabber	Plastic Shield	Boy Fig	Spiky Hair	Soap Water
Dot	Baseplate Grabber	Golden Wrench	Girl Fig	Balding	Soft Carpet
Ned	Color Changer	Laser Goggles	Boy Fig	Ponytail	Soap Water
Max	Color Changer	Golden Wrench	Girl Fig	Spiky Hair	Soap Water
Tim	Glue Bottle	Golden Wrench	Boy Fig	Balding	Soft Carpet
Ann	Baseplate Grabber	Jetpack Shoes	Girl Fig	Balding	Soft Carpet
Zoe	Glue Bottle	Jetpack Shoes	Boy Fig	Ponytail	Soft Carpet
Eve	Color Changer	Golden Wrench	Girl Fig	Balding	Soap Water
Kip	Brick Launcher	Golden Wrench	Boy Fig	Ponytail	Soft Carpet
Art	Glue Bottle	Cape of Shadow	Boy Fig	Spiky Hair	Loud Claps
Teddy	Color Changer	Cape of Shadow	Girl Fig	Balding	Soft Carpet
Jan	Brick Launcher	Plastic Shield	Girl Fig	Balding	Soft Carpet
Sam	Brick Launcher	Plastic Shield	Boy Fig	Ponytail	Soft Carpet
Fay	Baseplate Grabber	Laser Goggles	Boy Fig	Balding	Loud Claps
Roy	Baseplate Grabber	Plastic Shield	Boy Fig	Balding	Soap Water
Dan	Glue Bottle	Laser Goggles	Girl Fig	Balding	Loud Claps
Ben	Brick Launcher	Jetpack Shoes	Girl Fig	Balding	Soft Carpet

CLUE 1 Addition

Teddy counts the red bricks and Margot counts the blue bricks. They add them all together to find the first clue.

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

<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
65	33	75	50	74	38	88	21	65	33	74	68	38	80	29	74	46	75
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
80	58	68	33	74	88	80	36										

$26 + 39 =$	<input type="text"/>	T	$15 + 35 =$	<input type="text"/>	B	$13 + 23 =$	<input type="text"/>	W
$32 + 26 =$	<input type="text"/>	F	$8 + 13 =$	<input type="text"/>	I	$17 + 12 =$	<input type="text"/>	C
$29 + 45 =$	<input type="text"/>	A	$50 + 38 =$	<input type="text"/>	D	$25 + 21 =$	<input type="text"/>	P
$20 + 13 =$	<input type="text"/>	H	$48 + 32 =$	<input type="text"/>	O	$21 + 17 =$	<input type="text"/>	N
$22 + 53 =$	<input type="text"/>	E	$41 + 27 =$	<input type="text"/>	S			

Scratch space:

CLUE 2**Subtraction**

Teddy has a big pile of yellow bricks. Margot takes away the broken ones. Subtracting them reveals the next clue.

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

<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="T"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
43	27	45	81	68	81	80	45	17	43	87	81	51	42	87	37	40
<input type="text"/>	<input type="text"/>	<input type="text"/>														
84	87	42														

$61 - 18 =$

T

$58 - 13 =$

E

$57 - 40 =$

C

$64 - 22 =$

G

$50 - 10 =$

L

$83 - 15 =$

U

$84 - 3 =$

S

$87 - 3 =$

F

$47 - 10 =$

R

$70 - 19 =$

A

$29 - 2 =$

H

$101 - 14 =$

I

$115 - 35 =$

P

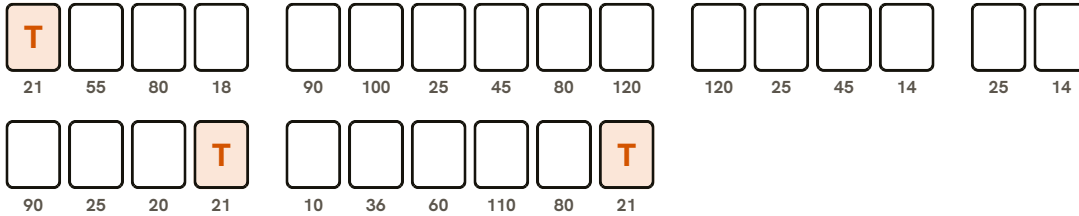
Scratch space:

CLUE 3

Skip counting

The kids look at the lego studs on the playroom floor. They skip count by fives along the trail to find a clue.

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



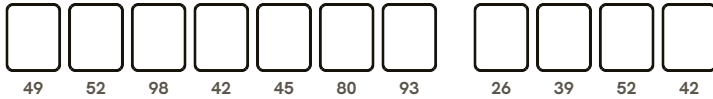
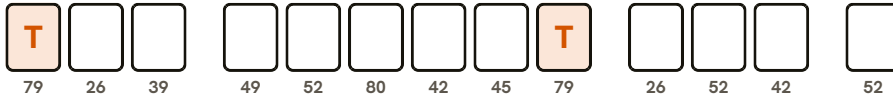
- | | | | | | |
|--|--------------------------------------|--|--------------------------------------|---|--------------------------------------|
| <p>Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, <input type="text"/>, 24, 27</p> | <p><input type="text"/> T</p> | <p>Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, <input type="text"/>, 60, 65</p> | <p><input type="text"/> H</p> | <p>Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, <input type="text"/>, 110, 120</p> | <p><input type="text"/> L</p> |
| <p>Skip-count by 5s. Fill the blank: 5, 10, 15, 20, <input type="text"/>, 30, 35</p> | <p><input type="text"/> O</p> | <p>Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, <input type="text"/>, 130, 140</p> | <p><input type="text"/> D</p> | <p>Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, <input type="text"/>, 39, 42</p> | <p><input type="text"/> A</p> |
| <p>Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, <input type="text"/>, 90, 100</p> | <p><input type="text"/> E</p> | <p>Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, <input type="text"/>, 100, 110</p> | <p><input type="text"/> S</p> | <p>Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, <input type="text"/>, 21, 24</p> | <p><input type="text"/> Y</p> |
| <p>Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, <input type="text"/>, 65, 70</p> | <p><input type="text"/> R</p> | <p>Skip-count by 2s. Fill the blank: 2, 4, 6, 8, <input type="text"/>, 12, 14</p> | <p><input type="text"/> C</p> | <p>Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, <input type="text"/>, 120, 130</p> | <p><input type="text"/> P</p> |
| <p>Skip-count by 5s. Fill the blank: 5, 10, 15, <input type="text"/>, 25, 30</p> | <p><input type="text"/> F</p> | <p>Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, <input type="text"/>, 16, 18</p> | <p><input type="text"/> N</p> | <p>Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, <input type="text"/>, 50, 55</p> | <p><input type="text"/> W</p> |

Scratch space:

CLUE 4**Place value (tens & ones)**

Teddy builds a tower with tens blocks and ones blocks. Reading the total place value unlocks the secret code.

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



What number has 7 tens and 9 ones? **T** What number has 4 tens and 2 ones? **D** What number has 2 tens and 6 ones? **H**

What number has 5 tens and 2 ones? **A** What number has 9 tens and 3 ones? **G** What number has 4 tens and 5 ones? **I**

What number has 3 tens and 9 ones? **E** What number has 9 tens and 8 ones? **L** What number has 8 tens and 0 ones? **N**

What number has 4 tens and 9 ones? **B**

Scratch space:

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

A lego bridge is missing some pieces. Margot finds how many more are needed to finish it and 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:

$4 + \underline{\quad} = 11$

$5 + \underline{\quad} = 10$

$9 + \underline{\quad} = 19$

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

$7 + \underline{\quad} = 13$

$1 + \underline{\quad} = 4$

$8 + \underline{\quad} = 9$

$2 + \underline{\quad} = 6$

$5 + \underline{\quad} = 17$

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

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

Step 2 - cross out the sentence with each answer:

1. The villain steals the gray baseplate, then hides behind a cape of shadow.
2. The villain glues the lego tower shut, then melts a wall with laser goggles.
3. The villain sorts all the blue blocks, then tightens the bolts with a golden wrench.
4. The villain shoots red lego blocks, then melts a wall with laser goggles.
5. The villain shoots red lego blocks, then flies away using jetpack shoes.
6. The villain glues the lego tower shut, then hides behind a cape of shadow.
7. The villain steals the gray baseplate, then tightens the bolts with a golden wrench.
8. The villain sorts all the blue blocks, then melts a wall with laser goggles.
9. The villain sorts all the blue blocks, then hides behind a cape of shadow.
10. The villain steals the gray baseplate, then flies away using jetpack shoes.
11. The villain shoots red lego blocks, then blocks the exit with a plastic shield.
12. The villain paints the green lego grass blue, then blocks the exit with a plastic shield.

Answer Key

The Great Toy Room Mix-Up

Culprit: Jan

Brick Launcher · Plastic Shield · Girl Fig · Balding · Soft Carpet

Trail: Start 21 → Clue 1 19 → Clue 2 8 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE BANDIT HAS NO CAPE OF SHADOW"

$26 + 39 = 65$ (T) · $15 + 35 = 50$ (B) · $13 + 23 = 36$ (W) · $32 + 26 = 58$ (F) · $8 + 13 = 21$ (I) · $17 + 12 = 29$ (C) · $29 + 45 = 74$ (A) · $50 + 38 = 88$ (D) · $25 + 21 = 46$ (P) · $20 + 13 = 33$ (H) · $48 + 32 = 80$ (O) · $21 + 17 = 38$ (N) · $22 + 53 = 75$ (E) · $41 + 27 = 68$ (S)

Clue 2 (Subtraction): "THE SUSPECT IS A GIRL FIG"

$61 - 18 = 43$ (T) · $58 - 13 = 45$ (E) · $57 - 40 = 17$ (C) · $64 - 22 = 42$ (G) · $50 - 10 = 40$ (L) · $83 - 15 = 68$ (U) · $84 - 3 = 81$ (S) · $87 - 3 = 84$ (F) · $47 - 10 = 37$ (R) · $70 - 19 = 51$ (A) · $29 - 2 = 27$ (H) · $101 - 14 = 87$ (I) · $115 - 35 = 80$ (P)

Clue 3 (Skip counting): "THEY SLOWED DOWN ON SOFT CARPET"

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

Clue 4 (Place value (tens & ones)): "THE BANDIT HAD A BALDING HEAD"

What number has 7 tens and 9 ones? = 79 (T) · What number has 4 tens and 2 ones? = 42 (D) · What number has 2 tens and 6 ones? = 26 (H) · What number has 5 tens and 2 ones? = 52 (A) · What number has 9 tens and 3 ones? = 93 (G) · What number has 4 tens and 5 ones? = 45 (I) · What number has 3 tens and 9 ones? = 39 (E) · What number has 9 tens and 8 ones? = 98 (L) · What number has 8 tens and 0 ones? = 80 (N) · What number has 4 tens and 9 ones? = 49 (B)

Clue 5 (Missing addends): surviving statement is box 11 → Jan

$4 + \underline{\quad} = 11 = 7$ · $5 + \underline{\quad} = 10 = 5$ · $9 + \underline{\quad} = 19 = 10$ · $8 + \underline{\quad} = 10 = 2$ · $7 + \underline{\quad} = 13 = 6$ · $1 + \underline{\quad} = 4 = 3$ · $8 + \underline{\quad} = 9 = 1$ · $2 + \underline{\quad} = 6 = 4$ · $5 + \underline{\quad} = 17 = 12$ · $1 + \underline{\quad} = 9 = 8$ · $8 + \underline{\quad} = 17 = 9$