



The Great Block Bandit

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

Detective: _____ Date: _____

A sneaky thief took the golden trophy from the village square! Solve the clues to catch the block thief before they escape.

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 block thief is _____

Possible suspects

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

NAME	MAIN TOOL	BLOCK STASH	GRIP HAND	HELMET COLOR	DISTRACTION
Gravel Greg	Gold Shovel	Emerald Gems	Right Handed	Blue Helmet	Baked Potato
Rune Ruby	Iron Sword	Redstone Dust	Right Handed	Green Helmet	Golden Apple
Steve Craft	Iron Sword	Lapis Lumps	Left Handed	Green Helmet	Golden Apple
Redstone Rita	Iron Sword	Redstone Dust	Left Handed	Green Helmet	Baked Potato
Grid Gabe	Nether Axe	Obsidian Blocks	Left Handed	Red Helmet	Tame Wolf
Cobble Sam	Iron Sword	Obsidian Blocks	Left Handed	Red Helmet	Baked Potato
Diamond Dan	Gold Shovel	Emerald Gems	Left Handed	Green Helmet	Golden Apple
Ender Ella	Stone Hoe	Emerald Gems	Right Handed	Blue Helmet	Tame Wolf
Quartz Quinn	Stone Hoe	Redstone Dust	Left Handed	Green Helmet	Golden Apple
Oakley Owen	Gold Shovel	Redstone Dust	Left Handed	Red Helmet	Golden Apple
Piston Pam	Diamond Pick	Lapis Lumps	Left Handed	Green Helmet	Golden Apple
Torch Tim	Iron Sword	Glowstone Dust	Right Handed	Green Helmet	Golden Apple
Beacon Ben	Iron Sword	Redstone Dust	Left Handed	Blue Helmet	Golden Apple
Alex Block	Gold Shovel	Emerald Gems	Right Handed	Red Helmet	Baked Potato
Creeper Carl	Diamond Pick	Redstone Dust	Left Handed	Blue Helmet	Baked Potato
Lava Lucy	Gold Shovel	Obsidian Blocks	Right Handed	Green Helmet	Tame Wolf
TNT Tina	Nether Axe	Glowstone Dust	Right Handed	Red Helmet	Tame Wolf
Builder Bobbie	Iron Sword	Redstone Dust	Left Handed	Blue Helmet	Tame Wolf
Pixel Pete	Iron Sword	Glowstone Dust	Right Handed	Green Helmet	Tame Wolf
Lapis Luke	Nether Axe	Glowstone Dust	Right Handed	Green Helmet	Golden Apple
Miner Max	Stone Hoe	Lapis Lumps	Left Handed	Green Helmet	Golden Apple

CLUE 1

Place value

Check the place value block on the beacon to decode the first clue.

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

T																T
22	17	55	36	93	53	53	23	93	27	62	90	55	63	27	90	22
17	23	36	55	55	25	55	97	23	53	62	58	55	25	63		

What number has 2 tens and 2 ones?

→ T

What number has 9 tens and 0 ones?

→ O

What number has 9 tens and 7 ones?

→ R

What number has 5 tens and 8 ones?

→ G

What number has 6 tens and 3 ones?

→ S

What number has 2 tens and 5 ones?

→ M

What number has 5 tens and 3 ones?

→ L

What number has 5 tens and 5 ones?

→ E

What number has 3 tens and 6 ones?

→ V

What number has 2 tens and 7 ones?

→ N

What number has 9 tens and 3 ones?

→ I

What number has 2 tens and 3 ones?

→ A

What number has 6 tens and 2 ones?

→ D

What number has 1 ten and 7 ones?

→ H

Scratch space:

CLUE 2 Addition

Add up all the iron ingots in the chest to find the next lead.

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

W									W										
59	75	76	38	90	63	63	63	46	59	80	90	72	76	92	46	38	87	90	87
65	80	95	34	51	27	80	46	34	90	84	90	38	76						

$27 + 32 = \square \rightarrow$ W	$48 + 42 = \square \rightarrow$ E	$27 + 49 = \square \rightarrow$ T
$33 + 47 = \square \rightarrow$ L	$47 + 45 = \square \rightarrow$ H	$48 + 39 = \square \rightarrow$ D
$28 + 18 = \square \rightarrow$ A	$15 + 36 = \square \rightarrow$ K	$13 + 21 = \square \rightarrow$ C
$42 + 30 = \square \rightarrow$ F	$19 + 19 = \square \rightarrow$ N	$47 + 28 = \square \rightarrow$ I
$13 + 14 = \square \rightarrow$ P	$18 + 45 = \square \rightarrow$ S	$38 + 27 = \square \rightarrow$ B
$38 + 46 = \square \rightarrow$ M	$43 + 52 = \square \rightarrow$ O	

Scratch space:

Subtraction

Take away the broken planks from the stack to reveal a note.

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



35 89 51 37 74 58 38 35 19 19 37 58 72 35 60 37 58 15 79

35 79 79 23 58 60 67 58 38 58

$48 - 13 = \square \rightarrow \mathbf{A}$

$85 - 6 = \boxed{} \rightarrow \boxed{\text{T}}$

$106 - 34 = \boxed{} \rightarrow \boxed{\text{W}}$

$97 - 23 = \boxed{} \rightarrow \boxed{\text{D}}$

$33 - 14 = \boxed{} \rightarrow \boxed{\text{P}}$

$121 - 32 = \boxed{} \rightarrow \boxed{\text{G}}$

$$61 - 1 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$44 - 21 = \boxed{} \rightarrow \boxed{\text{H}}$$

$27 - 12 = \square \rightarrow \mathbf{F}$

$47 - 9 = \boxed{} \rightarrow \boxed{\text{N}}$

$97 - 30 = \boxed{} \rightarrow \boxed{\text{C}}$

$88 - 30 = \boxed{} \rightarrow \boxed{\text{E}}$

$$91 - 40 = \boxed{} \rightarrow \boxed{0}$$

$70 - 33 = \boxed{} \rightarrow \boxed{\text{L}}$

Scratch space:

CLUE 4 Skip counting

Count the torch posts by twos along the trail to uncover the secret.

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

A													A					
15	30	50	16	16	18	33	16	70	6	16	39	21	15	55	70	16	110	39

26	18	39	33	16	110	12	50	16	55	39

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 → **A**

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **M**

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

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

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

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

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

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

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 → **O**

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

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

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, __, 40, 50 → **G**

Scratch space:

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

Find the missing number of bricks to finish the wall and unlock the 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:

$10 + \underline{\quad} = 21$

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

$4 + \underline{\quad} = 9$

$6 + \underline{\quad} = 9$

$2 + \underline{\quad} = 3$

$2 + \underline{\quad} = 14$

$8 + \underline{\quad} = 15$

$3 + \underline{\quad} = 11$

$3 + \underline{\quad} = 5$

$4 + \underline{\quad} = 10$

$10 + \underline{\quad} = 19$

Step 2 - cross out the sentence with each answer:

1. The villain chopped with a nether axe, then grabbed emerald gems.
2. The villain dug with a gold shovel, then pocketed lapis lumps.
3. The villain dug with a gold shovel, then grabbed emerald gems.
4. The villain slashed with an iron sword, then pocketed lapis lumps.
5. The villain scraped with a stone hoe, then took redstone dust.
6. The villain slashed with an iron sword, then took redstone dust.
7. The villain chopped with a nether axe, then pocketed lapis lumps.
8. The villain swung a diamond pick, then snatched glowstone dust.
9. The villain chopped with a nether axe, then stole obsidian blocks.
10. The villain scraped with a stone hoe, then pocketed lapis lumps.
11. The villain swung a diamond pick, then pocketed lapis lumps.
12. The villain chopped with a nether axe, then snatched glowstone dust.

Answer Key

The Great Block Bandit

Culprit: Steve Craft

Iron Sword · Lapis Lumps · Left Handed · Green Helmet · Golden Apple

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT HAVE EMERALD GEMS"

What number has 2 tens and 2 ones? = 22 (T) · What number has 9 tens and 0 ones? = 90 (O) · What number has 9 tens and 7 ones? = 97 (R) · What number has 5 tens and 8 ones? = 58 (G) · What number has 6 tens and 3 ones? = 63 (S) · What number has 2 tens and 5 ones? = 25 (M) · What number has 5 tens and 3 ones? = 53 (L) · What number has 5 tens and 5 ones? = 55 (E) · What number has 3 tens and 6 ones? = 36 (V) · What number has 2 tens and 7 ones? = 27 (N) · What number has 9 tens and 3 ones? = 93 (I) · What number has 2 tens and 3 ones? = 23 (A) · What number has 6 tens and 2 ones? = 62 (D) · What number has 1 ten and 7 ones? = 17 (H)

Clue 2 (Addition): "WITNESS SAW LEFT HANDED BLOCK PLACEMENT"

$27 + 32 = 59$ (W) · $48 + 42 = 90$ (E) · $27 + 49 = 76$ (T) · $33 + 47 = 80$ (L) · $47 + 45 = 92$ (H) · $48 + 39 = 87$ (D) · $28 + 18 = 46$ (A) · $15 + 36 = 51$ (K) · $13 + 21 = 34$ (C) · $42 + 30 = 72$ (F) · $19 + 19 = 38$ (N) · $47 + 28 = 75$ (I) · $13 + 14 = 27$ (P) · $18 + 45 = 63$ (S) · $38 + 27 = 65$ (B) · $38 + 46 = 84$ (M) · $43 + 52 = 95$ (O)

Clue 3 (Subtraction): "A GOLDEN APPLE WAS LEFT AT THE SCENE"

$48 - 13 = 35$ (A) · $85 - 6 = 79$ (T) · $106 - 34 = 72$ (W) · $97 - 23 = 74$ (D) · $33 - 14 = 19$ (P) · $121 - 32 = 89$ (G) · $61 - 1 = 60$ (S) · $44 - 21 = 23$ (H) · $27 - 12 = 15$ (F) · $47 - 9 = 38$ (N) · $97 - 30 = 67$ (C) · $88 - 30 = 58$ (E) · $91 - 40 = 51$ (O) · $70 - 33 = 37$ (L)

Clue 4 (Skip counting): "A GREEN HELMET WAS LEFT IN THE FOREST"

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 = 15 (A) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (M) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (W) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 = 26 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, __, 120, 130 = 110 (F) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, __, 21, 24 = 18 (N) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 = 12 (O) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, __, 60, 65 = 55 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (R) · 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, __, 40, 50 = 30 (G)

Clue 5 (Missing addends): surviving statement is box 4 → Steve Craft

$10 + \underline{\quad} = 21 = 11$ · $9 + \underline{\quad} = 19 = 10$ · $4 + \underline{\quad} = 9 = 5$ · $6 + \underline{\quad} = 9 = 3$ · $2 + \underline{\quad} = 3 = 1$ · $2 + \underline{\quad} = 14 = 12$ · $8 + \underline{\quad} = 15 = 7$ · $3 + \underline{\quad} = 11 = 8$ · $3 + \underline{\quad} = 5 = 2$ · $4 + \underline{\quad} = 10 = 6$ · $10 + \underline{\quad} = 19 = 9$