



The Golden Block Mystery

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

Detective: _____ Date: _____

Someone stole the Golden Soccer Block from Pixel Reef Stadium! We must find the sneaky robot mermaid who took it.

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 Glitch Thief is _____

Possible suspects

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

NAME	SOCCER MOVE	ROBOT GEAR	KICKING FOOT	HAIR LIGHT	ITEM WEAKNESS
Messi	Super Header	Redstone Fin	Left-footed	Neon Blue LED	Golden Apple
Marta	Super Header	Redstone Fin	Right-footed	Neon Blue LED	Splash Potion
Kelp	Super Header	Coral Boots	Left-footed	Neon Blue LED	Splash Potion
Sparky	Block Tackle	Iron Helmet	Right-footed	Neon Blue LED	Splash Potion
Finley	Speed Kick	Iron Helmet	Left-footed	Green Seaweed	Splash Potion
Marina	Aqua Slide	Coral Boots	Right-footed	Green Seaweed	Splash Potion
Alex	Aqua Slide	Iron Helmet	Right-footed	Bright Pink Wire	Golden Apple
Harry	Block Tackle	Iron Helmet	Right-footed	Green Seaweed	Splash Potion
Siren	Super Header	Iron Helmet	Right-footed	Green Seaweed	Splash Potion
Neymar	Speed Kick	Iron Helmet	Left-footed	Neon Blue LED	Golden Apple
Rusty	Aqua Slide	Prismarine Tail	Right-footed	Green Seaweed	Golden Apple
Pixel	Aqua Slide	Redstone Fin	Right-footed	Green Seaweed	Golden Apple
Geary	Mega Save	Redstone Fin	Right-footed	Green Seaweed	Sponge Block
Glitches	Speed Kick	Redstone Fin	Right-footed	Green Seaweed	Golden Apple
Ariel	Aqua Slide	Coral Boots	Left-footed	Bright Pink Wire	Splash Potion
Coral	Super Header	Prismarine Tail	Left-footed	Neon Blue LED	Splash Potion
Splash	Speed Kick	Coral Boots	Left-footed	Neon Blue LED	Sponge Block
Wave	Block Tackle	Prismarine Tail	Left-footed	Green Seaweed	Sponge Block
Steve	Aqua Slide	Gold Cleats	Right-footed	Green Seaweed	Splash Potion
Octo	Mega Save	Iron Helmet	Right-footed	Neon Blue LED	Splash Potion
Sandro	Block Tackle	Prismarine Tail	Right-footed	Green Seaweed	Splash Potion

CLUE 1 Place value

The stadium radar scans the reef. It shows numbers on a block screen. Let us read the tens and ones to unlock the first clue!

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

T			T											T				
56	58	90	56	58	76	90	62	39	80	90	99	44	80	56	36	99	90	88
												T						
14	51	76	99	34	88	51	76	44	90	56	88	76	66					

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

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

What number has 3 tens and 9 ones? → **D**

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

What number has 3 tens and 4 ones? → **M**

What number has 1 ten and 4 ones? → **P**

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

What number has 6 tens and 6 ones? → **L**

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

What number has 4 tens and 4 ones? → **N**

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

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

What number has 5 tens and 1 one? → **R**

What number has 8 tens and 8 ones? → **A**

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

Scratch space:

CLUE 2 Skip counting

We count the glowing soccer balls on the sea floor. We skip count by fives to find the code. Let us do it!

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

W				W											
30	60	8	80	30	39	10	27	14	22	26	120	120	22	60	35
90	39	10	110	22	8	10	110	22	14	60	8	80	110	35	

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

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

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

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **E**

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

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

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

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

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

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

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

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

Scratch space:

CLUE 3 **Addition**

We need to count all the redstone dust blocks in the locker room. We add the piles together to get the total.

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

T															
67	56	91	53	98	36	83	36	25	36	53	62	98	23	73	36

								T			
37	79	47	36	37	56	79	23	67	82	23	83

$22 + 45 = \square \rightarrow \text{T}$	$19 + 34 = \square \rightarrow \text{Y}$	$57 + 25 = \square \rightarrow \text{I}$
$35 + 38 = \square \rightarrow \text{M}$	$25 + 11 = \square \rightarrow \text{A}$	$31 + 52 = \square \rightarrow \text{N}$
$44 + 35 = \square \rightarrow \text{P}$	$15 + 8 = \square \rightarrow \text{O}$	$27 + 64 = \square \rightarrow \text{E}$
$38 + 24 = \square \rightarrow \text{F}$	$18 + 29 = \square \rightarrow \text{L}$	$22 + 34 = \square \rightarrow \text{H}$
$23 + 14 = \square \rightarrow \text{S}$	$60 + 38 = \square \rightarrow \text{R}$	$12 + 13 = \square \rightarrow \text{W}$

Scratch space:

CLUE 4 Subtraction

The referee had many iron soccer balls. Some rolled away into the deep water. We subtract to see how many are left!

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

W 76	62	49	33	87	74	85	14	86	62	62	74	57	62	59	W 76	62	62	85
33	74	73	72	62	75	59	48	48										

$83 - 7 = \square \rightarrow \text{W}$	$107 - 22 = \square \rightarrow \text{D}$	$58 - 25 = \square \rightarrow \text{O}$
$25 - 11 = \square \rightarrow \text{G}$	$52 - 4 = \square \rightarrow \text{L}$	$108 - 33 = \square \rightarrow \text{B}$
$86 - 24 = \square \rightarrow \text{E}$	$111 - 38 = \square \rightarrow \text{T}$	$99 - 12 = \square \rightarrow \text{U}$
$87 - 1 = \square \rightarrow \text{R}$	$89 - 40 = \square \rightarrow \text{F}$	$92 - 18 = \square \rightarrow \text{N}$
$95 - 36 = \square \rightarrow \text{A}$	$92 - 20 = \square \rightarrow \text{H}$	$64 - 7 = \square \rightarrow \text{S}$

Scratch space:

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

The score board has a missing number. We need some goals to make the final score match. Let us find the missing number!

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:

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

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

$9 + \underline{\quad} = 10$

$9 + \underline{\quad} = 16$

$4 + \underline{\quad} = 8$

$5 + \underline{\quad} = 16$

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

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

$4 + \underline{\quad} = 16$

$2 + \underline{\quad} = 5$

$7 + \underline{\quad} = 12$

Step 2 - cross out the sentence with each answer:

1. The villain hits a super header, then glows in an iron helmet.
2. The villain makes an aqua slide, then kicks with gold cleats.
3. The villain performs a mega save, then kicks with gold cleats.
4. The villain hits a super header, then zips away with a redstone fin.
5. The villain performs a mega save, then zips away with a redstone fin.
6. The villain uses a block tackle, then kicks with gold cleats.
7. The villain uses a block tackle, then swims fast with a prismarine tail.
8. The villain hits a super header, then swims fast with a prismarine tail.
9. The villain makes an aqua slide, then jumps high in coral boots.
10. The villain uses a block tackle, then glows in an iron helmet.
11. The villain does a speed kick, then kicks with gold cleats.
12. The villain does a speed kick, then glows in an iron helmet.

Answer Key

The Golden Block Mystery

Culprit: Harry

Block Tackle · Iron Helmet · Right-footed · Green Seaweed · Splash Potion

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT USE A PRISMARINE TAIL"

What number has 5 tens and 6 ones? = 56 (T) · What number has 8 tens and 0 ones? = 80 (O) · What number has 3 tens and 9 ones? = 39 (D) · What number has 9 tens and 9 ones? = 99 (S) · What number has 3 tens and 4 ones? = 34 (M) · What number has 1 ten and 4 ones? = 14 (P) · What number has 9 tens and 0 ones? = 90 (E) · What number has 6 tens and 6 ones? = 66 (L) · What number has 7 tens and 6 ones? = 76 (I) · What number has 4 tens and 4 ones? = 44 (N) · What number has 5 tens and 8 ones? = 58 (H) · What number has 6 tens and 2 ones? = 62 (F) · What number has 5 tens and 1 one? = 51 (R) · What number has 8 tens and 8 ones? = 88 (A) · What number has 3 tens and 6 ones? = 36 (U)

Clue 2 (Skip counting): "WE SAW RIGHT FOOTED PRINTS IN THE SAND"

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

Clue 3 (Addition): "THEY RAN AWAY FROM A SPLASH POTION"

$22 + 45 = 67$ (T) · $19 + 34 = 53$ (Y) · $57 + 25 = 82$ (I) · $35 + 38 = 73$ (M) · $25 + 11 = 36$ (A) · $31 + 52 = 83$ (N) · $44 + 35 = 79$ (P) · $15 + 8 = 23$ (O) · $27 + 64 = 91$ (E) · $38 + 24 = 62$ (F) · $18 + 29 = 47$ (L) · $22 + 34 = 56$ (H) · $23 + 14 = 37$ (S) · $60 + 38 = 98$ (R) · $12 + 13 = 25$ (W)

Clue 4 (Subtraction): "WE FOUND GREEN SEAWEED ON THE BALL"

$83 - 7 = 76$ (W) · $107 - 22 = 85$ (D) · $58 - 25 = 33$ (O) · $25 - 11 = 14$ (G) · $52 - 4 = 48$ (L) · $108 - 33 = 75$ (B) · $86 - 24 = 62$ (E) · $111 - 38 = 73$ (T) · $99 - 12 = 87$ (U) · $87 - 1 = 86$ (R) · $89 - 40 = 49$ (F) · $92 - 18 = 74$ (N) · $95 - 36 = 59$ (A) · $92 - 20 = 72$ (H) · $64 - 7 = 57$ (S)

Clue 5 (Missing addends): surviving statement is box 10 → Harry

$3 + \underline{\quad} = 5 = 2$ · $8 + \underline{\quad} = 17 = 9$ · $9 + \underline{\quad} = 10 = 1$ · $9 + \underline{\quad} = 16 = 7$ · $4 + \underline{\quad} = 8 = 4$ · $5 + \underline{\quad} = 16 = 11$ · $1 + \underline{\quad} = 9 = 8$ · $5 + \underline{\quad} = 11 = 6$ · $4 + \underline{\quad} = 16 = 12$ · $2 + \underline{\quad} = 5 = 3$ · $7 + \underline{\quad} = 12 = 5$