The Case of the Missing Prismarine Horn

Grade 2 math · Place value, Addition, Subtraction, Skip counting, Missing addends · Reading level grades 3-4

Detective: _____ **Date:** _____

A mysterious intruder swam into the underwater block castle and snatched the sacred Prismarine Horn! Solve the clues to discover 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 Reef Bandit is _____

Possible suspects

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

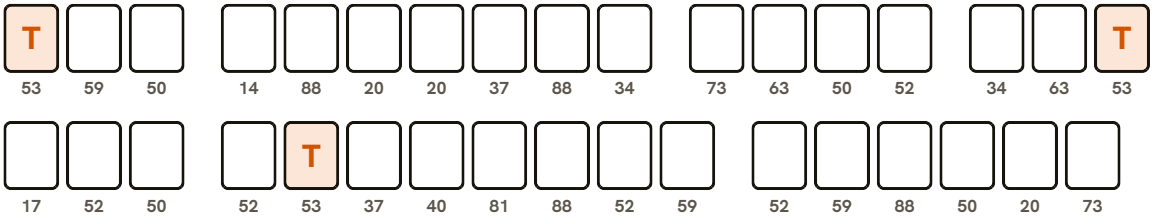
NAME	MAIN ABILITY	UNICORN SKILL	DOMINANT HAND	MANE STYLE	SECRET WEAKNESS
Marina Block	Kelp Farming	Glowing Horn	Right-handed Builder	Neon Blue Mane	Music Discs
Pebble Pat	Bubble Mining	Starfish Shield	Left-handed Builder	Neon Blue Mane	Golden Apples
Starling Sea	Prismarine Beam	Starfish Shield	Left-handed Builder	Neon Blue Mane	Music Discs
Sandy Shimmer	Pearl Crafting	Glowing Horn	Right-handed Builder	Glitter Pink Fins	Music Discs
Ray Reef	Bubble Mining	Diamond Hooves	Right-handed Builder	Seafoam Green Locks	Sponges
Neptune Glint	Rainbow Swimming	Diamond Hooves	Left-handed Builder	Glitter Pink Fins	Music Discs
Mariner Morgan	Bubble Mining	Sparkle Dash	Right-handed Builder	Seafoam Green Locks	Golden Apples
Glimmer Grace	Bubble Mining	Glowing Horn	Left-handed Builder	Seafoam Green Locks	Sponges
Aqua Avery	Prismarine Beam	Sparkle Dash	Right-handed Builder	Glitter Pink Fins	Music Discs
Kelp Alex	Prismarine Beam	Diamond Hooves	Right-handed Builder	Glitter Pink Fins	Music Discs
Glitter Jordan	Kelp Farming	Coral Teleport	Left-handed Builder	Neon Blue Mane	Golden Apples
Tide Taylor	Rainbow Swimming	Coral Teleport	Right-handed Builder	Glitter Pink Fins	Golden Apples
Cascade Cody	Prismarine Beam	Starfish Shield	Right-handed Builder	Seafoam Green Locks	Music Discs
Coral Brody	Prismarine Beam	Diamond Hooves	Left-handed Builder	Seafoam Green Locks	Sponges
Siren Sky	Prismarine Beam	Starfish Shield	Right-handed Builder	Glitter Pink Fins	Music Discs
Crystal Kai	Rainbow Swimming	Sparkle Dash	Right-handed Builder	Glitter Pink Fins	Music Discs
Finley Craft	Bubble Mining	Diamond Hooves	Left-handed Builder	Neon Blue Mane	Sponges
Opal Ocean	Rainbow Swimming	Starfish Shield	Right-handed Builder	Glitter Pink Fins	Golden Apples
Pearl Sparkle	Kelp Farming	Sparkle Dash	Right-handed Builder	Seafoam Green Locks	Music Discs
Splashy Sam	Kelp Farming	Glowing Horn	Left-handed Builder	Seafoam Green Locks	Golden Apples
Wavey Wyatt	Pearl Crafting	Sparkle Dash	Right-handed Builder	Neon Blue Mane	Sponges

make your own at mathcrackers.com

CLUE 1 Place value

The Coral Keeper checked the digital block counter near the reef gate, but only the place values were readable.

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



What number has 5 tens and 3 ones? ☐ → T

What number has 3 tens and 4 ones? ☐ → N

What number has 2 tens and 0 ones? ☐ → L

What number has 6 tens and 3 ones? ☐ → O

What number has 3 tens and 7 ones? ☐ → A

What number has 1 ten and 7 ones? ☐ → U

What number has 8 tens and 8 ones? ☐ → I

What number has 1 ten and 4 ones? ☐ → V

What number has 5 tens and 0 ones? ☐ → E

What number has 7 tens and 3 ones? ☐ → D

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

What number has 8 tens and 1 one? ☐ → F

What number has 4 tens and 0 ones? ☐ → R

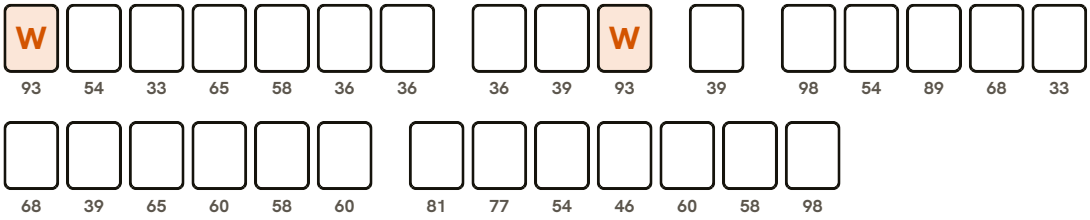
What number has 5 tens and 2 ones? ☐ → S

Scratch space:

CLUE 2 Addition

To search the kelp forest, you combine the tally totals of found block fragments.

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



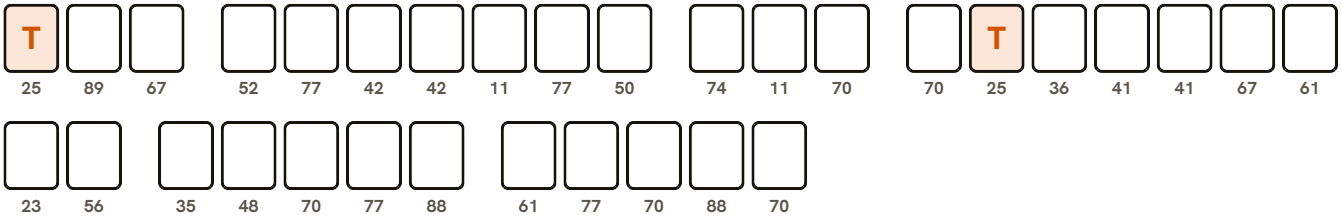
59 + 34 = ☐ → W	13 + 20 = ☐ → T	60 + 38 = ☐ → R
19 + 35 = ☐ → I	36 + 41 = ☐ → U	47 + 34 = ☐ → B
26 + 20 = ☐ → L	30 + 30 = ☐ → D	19 + 39 = ☐ → E
25 + 40 = ☐ → N	26 + 63 = ☐ → G	45 + 23 = ☐ → H
12 + 27 = ☐ → A	22 + 14 = ☐ → S	

Scratch space:

CLUE 3 Subtraction

You calculate how many sparkle gems were taken from the ocean chest.

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



60 - 35 = ☐ → T

46 - 11 = ☐ → M

94 - 5 = ☐ → H

73 - 25 = ☐ → U

40 - 29 = ☐ → A

94 - 33 = ☐ → D

67 - 31 = ☐ → O

76 - 6 = ☐ → S

90 - 2 = ☐ → C

87 - 10 = ☐ → I

88 - 14 = ☐ → W

53 - 1 = ☐ → V

57 - 16 = ☐ → P

88 - 38 = ☐ → N

56 - 14 = ☐ → L

34 - 11 = ☐ → B

59 - 3 = ☐ → Y

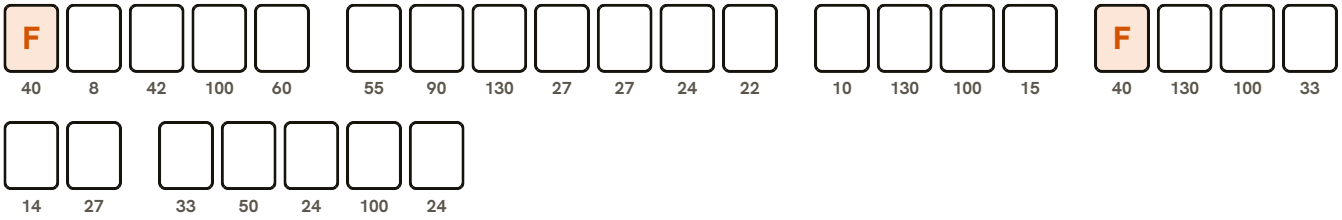
75 - 8 = ☐ → E

Scratch space:

CLUE 4 Skip counting

Following a trail of glowing shells, you count them in equal groups along the sea floor.

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



Skip-count by 10s. Fill the blank: 10, 20, 30, ___, 50, 60 ☐ → **F**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 ☐ → **O**

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 ☐ → **N**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 ☐ → **I**

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, ___, 55, 60 ☐ → **C**

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

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 ☐ → **P**

Skip-count by 5s. Fill the blank: 5, 10, ___, 20, 25 ☐ → **K**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 ☐ → **E**

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

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

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

Scratch space:

CLUE 5 Missing addends - the last clue

> The vault door needs a balanced number of rainbow pearls to unlock the final 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:

6 + ___ = 17 ☐	5 + ___ = 15 ☐	6 + ___ = 10 ☐	10 + ___ = 15 ☐
2 + ___ = 14 ☐	3 + ___ = 6 ☐	10 + ___ = 17 ☐	5 + ___ = 11 ☐
8 + ___ = 9 ☐	6 + ___ = 8 ☐	3 + ___ = 12 ☐	

Step 2 - cross out the sentence with each answer:

1. The villain mined sparkling bubble crystal, then stamped with diamond hooves.
2. The villain harvested glowing kelp beds, then lit up a glowing horn.
3. The villain fired a prismarine beam, then lit up a glowing horn.
4. The villain fired a prismarine beam, then stamped with diamond hooves.
5. The villain crafted prismarine blocks, then performed a sparkle dash.
6. The villain swam through rainbow kelp, then used coral teleportation.
7. The villain swam through rainbow kelp, then lit up a glowing horn.
8. The villain fired a prismarine beam, then performed a sparkle dash.
9. The villain mined sparkling bubble crystal, then raised a starfish shield.
10. The villain swam through rainbow kelp, then performed a sparkle dash.
11. The villain crafted prismarine blocks, then lit up a glowing horn.
12. The villain swam through rainbow kelp, then raised a starfish shield.

TEACHER / PARENT

Answer Key

The Case of the Missing Prismarine Horn

Culprit: Aqua Avery

Prismarine Beam · Sparkle Dash · Right-handed Builder · Glitter Pink Fins · Music Discs

Trail: Start 21 → Clue 1 16 → Clue 2 10 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE VILLAIN DOES NOT USE STARFISH SHIELD"

What number has 5 tens and 3 ones? = 53 (T) · What number has 3 tens and 4 ones? = 34 (N) · What number has 2 tens and 0 ones? = 20 (L) · What number has 6 tens and 3 ones? = 63 (O) · What number has 3 tens and 7 ones? = 37 (A) · What number has 1 ten and 7 ones? = 17 (U) · What number has 8 tens and 8 ones? = 88 (I) · What number has 1 ten and 4 ones? = 14 (V) · What number has 5 tens and 0 ones? = 50 (E) · What number has 7 tens and 3 ones? = 73 (D) · What number has 5 tens and 9 ones? = 59 (H) · What number has 8 tens and 1 one? = 81 (F) · What number has 4 tens and 0 ones? = 40 (R) · What number has 5 tens and 2 ones? = 52 (S)

Clue 2 (Addition): "WITNESS SAW A RIGHT HANDED BUILDER"

59 + 34 = 93 (W) · 13 + 20 = 33 (T) · 60 + 38 = 98 (R) · 19 + 35 = 54 (I) · 36 + 41 = 77 (U) · 47 + 34 = 81 (B) · 26 + 20 = 46 (L) · 30 + 30 = 60 (D) · 19 + 39 = 58 (E) · 25 + 40 = 65 (N) · 26 + 63 = 89 (G) · 45 + 23 = 68 (H) · 12 + 27 = 39 (A) · 22 + 14 = 36 (S)

Clue 3 (Subtraction): "THE VILLAIN WAS STOPPED BY MUSIC DISCS"

60 - 35 = 25 (T) · 46 - 11 = 35 (M) · 94 - 5 = 89 (H) · 73 - 25 = 48 (U) · 40 - 29 = 11 (A) · 94 - 33 = 61 (D) · 67 - 31 = 36 (O) · 76 - 6 = 70 (S) · 90 - 2 = 88 (C) · 87 - 10 = 77 (I) · 88 - 14 = 74 (W) · 53 - 1 = 52 (V) · 57 - 16 = 41 (P) · 88 - 38 = 50 (N) · 56 - 14 = 42 (L) · 34 - 11 = 23 (B) · 59 - 3 = 56 (Y) · 75 - 8 = 67 (E)

Clue 4 (Skip counting): "FOUND GLITTER PINK FINS AT SCENE"

Skip-count by 10s. Fill the blank: 10, 20, 30, ___, 50, 60 = 40 (F) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, ___, 24, 26 = 22 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 = 8 (O) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, ___, 100, 110 = 90 (L) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ___, 45, 48 = 42 (U) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, ___, 140, 150 = 130 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, ___, 65, 70 = 60 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, ___, 55, 60 = 50 (C) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, ___, 12, 14 = 10 (P) · Skip-count by 5s. Fill the blank: 5, 10, ___, 20, 25 = 15 (K) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, ___, 26, 28 = 24 (E) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (S) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, ___, 60, 65 = 55 (G) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, ___, 16, 18 = 14 (A)

Clue 5 (Missing addends): surviving statement is box 8 → Aqua Avery

6 + ___ = 17 = 11 · 5 + ___ = 15 = 10 · 6 + ___ = 10 = 4 · 10 + ___ = 15 = 5 · 2 + ___ = 14 = 12 · 3 + ___ = 6 = 3 · 10 + ___ = 17 = 7 · 5 + ___ = 11 = 6 · 8 + ___ = 9 = 1 · 6 + ___ = 8 = 2 · 3 + ___ = 12 = 9