



The Case of the Lost Obsidian Anchor

Grade 4 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 3-4

Detective: _____ Date: _____

A rogue pirate captain has raided the docks of Crafty Cove! They stole the legendary Obsidian Anchor and sailed off into the blocky ocean. As a new recruit of the Square Fleet, you must follow the pixelated clues to find the thief.

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 rogue pirate captain is _____

Possible suspects

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

NAME	MINECRAFT SKILL	PIRATE GEAR	STEERING HAND	HAIR COLOR	WEAKNESS
Captain Spark	Fast Bridge Building	Parrot Companion	Left-handed swing	Sunken Gold Locks	Splash Water Potions
Ender Emma	TNT Cannon Blasting	Firework Rocket	Left-handed swing	Sunken Gold Locks	Splash Water Potions
Salty Sally	Ender Pearl Teleporting	Firework Rocket	Right-handed swing	Coal Black Braids	Glowing Pufferfish
Alex	Elytra Gliding	Parrot Companion	Left-handed swing	Coal Black Braids	Glowing Pufferfish
Patchy Pete	TNT Cannon Blasting	Spyglass	Right-handed swing	Sunken Gold Locks	Glowing Pufferfish
Scurvy Sid	Elytra Gliding	Firework Rocket	Left-handed swing	Sunken Gold Locks	Splash Water Potions
Barnaby Block	TNT Cannon Blasting	Firework Rocket	Right-handed swing	Bright Red Curls	Glowing Pufferfish
Jeb	Ender Pearl Teleporting	Firework Rocket	Left-handed swing	Bright Red Curls	Glowing Pufferfish
Captain Roger	Elytra Gliding	Enchanted Map	Left-handed swing	Sunken Gold Locks	Splash Water Potions
Crafty Carla	Ender Pearl Teleporting	Golden Apple	Left-handed swing	Sunken Gold Locks	Splash Water Potions
Captain Cobble	Ender Pearl Teleporting	Firework Rocket	Right-handed swing	Sunken Gold Locks	Splash Water Potions
Pegleg Pete	Elytra Gliding	Golden Apple	Left-handed swing	Bright Red Curls	Splash Water Potions
Captain Creep	Ender Pearl Teleporting	Spyglass	Right-handed swing	Sunken Gold Locks	Sparkling Milk Buckets
Scurvy Sam	Fast Bridge Building	Parrot Companion	Left-handed swing	Sunken Gold Locks	Glowing Pufferfish
Coral Chris	Fast Bridge Building	Parrot Companion	Right-handed swing	Bright Red Curls	Splash Water Potions
Jolly Roger	Ender Pearl Teleporting	Parrot Companion	Right-handed swing	Coal Black Braids	Splash Water Potions
Notch	Ender Pearl Teleporting	Enchanted Map	Left-handed swing	Sunken Gold Locks	Sparkling Milk Buckets
Scurvy Dan	Fast Bridge Building	Enchanted Map	Left-handed swing	Coal Black Braids	Glowing Pufferfish
Stampy	TNT Cannon Blasting	Firework Rocket	Left-handed swing	Bright Red Curls	Glowing Pufferfish
Steve	Fast Bridge Building	Firework Rocket	Left-handed swing	Coal Black Braids	Sparkling Milk Buckets
Salty Sean	TNT Cannon Blasting	Enchanted Map	Left-handed swing	Sunken Gold Locks	Sparkling Milk Buckets

CLUE 1

Your blocky ship radar can only show rounded numbers. Round the distance to the pirate fleet to find the first clue.

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

The diagram illustrates a sequence of elements, each represented by a box. The top row contains 15 boxes, and the bottom row contains 11 boxes. The boxes are arranged in two rows, with the top row having 15 boxes and the bottom row having 11 boxes. The boxes are numbered 1 through 15, corresponding to the sequence elements. The boxes are arranged in two rows, with the top row having 15 boxes and the bottom row having 11 boxes. The boxes are numbered 1 through 15, corresponding to the sequence elements. The boxes are arranged in two rows, with the top row having 15 boxes and the bottom row having 11 boxes. The boxes are numbered 1 through 15, corresponding to the sequence elements.

Index	Value	Active (T)
1	110	Yes
2	130	No
3	500	No
4	430	No
5	4300	No
6	430	No
7	700	No
8	500	No
9	2300	No
10	110	Yes
11	2900	No
12	370	No
13	500	No
14	430	No
15	20	No
16	370	No
17	110	Yes

Round 107 to the nearest ten $\rightarrow$ **T**

Round 2,301 to the nearest hundred $\rightarrow$ **C**

Round 4,296 to the nearest hundred $\rightarrow$ **U**

Round 1,664 to the nearest hundred $\rightarrow$ **V**

Round 1,082 to the nearest hundred $\rightarrow$ **A**

Round 2,276 to the nearest thousand $\rightarrow$ **R**

Round 536 to the nearest hundred → **E**

Round 2,906 to the nearest hundred $\rightarrow$ **D**

Round 24 to the nearest ten → **N**

Round 366 to the nearest ten $\rightarrow$

Round 427 to the nearest ten $\rightarrow$ **S**

Round 130 to the nearest ten $\rightarrow$ **H**

Round 677 to the nearest hundred $\rightarrow$ **P**

Scratch space:

CLUE 2 Addition

You count the total iron blocks stolen from the ship dock. Add the piles together to reveal the next lead.

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

T							T						T				
9275	6001	8487	6847	4530	4530	9275	4160	8201	9158	2200	9275	7736	3483	8487	2746	2200	

							T		T							T
6001	8487	2746	2719	9158	3483	2045	9275	4530	9275	6001	8487	3483	8487	6847	9275	

$6093 + 3182 = \square \rightarrow \text{[T]}$

$4437 + 3764 = \square \rightarrow \text{[R]}$

$1197 + 1003 = \square \rightarrow \text{[N]}$

$1136 + 1610 = \square \rightarrow \text{[A]}$

$1815 + 904 = \square \rightarrow \text{[V]}$

$1955 + 1528 = \square \rightarrow \text{[L]}$

$3123 + 6035 = \square \rightarrow \text{[I]}$

$627 + 1418 = \square \rightarrow \text{[Y]}$

$2040 + 2490 = \square \rightarrow \text{[O]}$

$2007 + 3994 = \square \rightarrow \text{[H]}$

$2907 + 4829 = \square \rightarrow \text{[S]}$

$3433 + 3414 = \square \rightarrow \text{[F]}$

$2090 + 2070 = \square \rightarrow \text{[P]}$

$3147 + 5340 = \square \rightarrow \text{[E]}$

Scratch space:

CLUE 3

Subtraction

The villain used up some of your healing potions during the raid. Subtract the remaining potions to find where they went.

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

T																			
8736	5826	4362	3848	7082	8534	8534	4332	7082	5228	2509	4332	7419	5826	2838	5758	8736	5722	8311	

7419	8100	8534	4332	7419	5826	2509	4332	8736	4362	5758	

$10897 - 2161 = \square \rightarrow \text{[T]}$

$7170 - 4661 = \square \rightarrow \text{[W]}$

$9000 - 466 = \square \rightarrow \text{[L]}$

$9281 - 3455 = \square \rightarrow \text{[H]}$

$7675 - 3343 = \square \rightarrow \text{[A]}$

$11565 - 3465 = \square \rightarrow \text{[P]}$

$7673 - 3311 = \square \rightarrow \text{[E]}$

$8022 - 2300 = \square \rightarrow \text{[B]}$

$4896 - 1048 = \square \rightarrow \text{[V]}$

$10641 - 2330 = \square \rightarrow \text{[Y]}$

$6005 - 3167 = \square \rightarrow \text{[U]}$

$11758 - 4339 = \square \rightarrow \text{[S]}$

$8999 - 3771 = \square \rightarrow \text{[N]}$

$10836 - 3754 = \square \rightarrow \text{[I]}$

$10032 - 4274 = \square \rightarrow \text{[R]}$

Scratch space:

CLUE 4

Multiplication facts (1-12)

You find rows of suspicious crop farms planted on the secret island. Multiply the rows and columns to crack the code.

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

G																	
35	7	84	27	8	55	16	14	27	14	16	77	56	36	27	16	25	

56	8	36	44	55	56	36	14

$7 \times 5 = \square \rightarrow \text{G}$

$7 \times 12 = \square \rightarrow \text{L}$

$2 \times 7 = \square \rightarrow \text{R}$

$5 \times 11 = \square \rightarrow \text{A}$

$7 \times 1 = \square \rightarrow \text{O}$

$3 \times 9 = \square \rightarrow \text{D}$

$8 \times 7 = \square \rightarrow \text{T}$

$4 \times 4 = \square \rightarrow \text{I}$

$2 \times 4 = \square \rightarrow \text{H}$

$3 \times 12 = \square \rightarrow \text{E}$

$11 \times 7 = \square \rightarrow \text{F}$

$5 \times 5 = \square \rightarrow \text{N}$

$4 \times 11 = \square \rightarrow \text{W}$

Scratch space:

CLUE 5**Division facts (1-12) - the last clue**

The pirate crew wants to split their emerald loot equally. Divide the gems to find the villain's final hideout.

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:

$18 \div 9 = \boxed{}$

$8 \div 8 = \boxed{}$

$10 \div 2 = \boxed{}$

$12 \div 1 = \boxed{}$

$64 \div 8 = \boxed{}$

$24 \div 8 = \boxed{}$

$49 \div 7 = \boxed{}$

$6 \div 1 = \boxed{}$

$110 \div 11 = \boxed{}$

$77 \div 7 = \boxed{}$

$108 \div 12 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain soars through the clouds on an elytra, then scribbling on an enchanted map.
2. The villain soars through the clouds on an elytra, then boosting away with a firework rocket.
3. The villain attacks with a sharp diamond sword, then munching on a rare golden apple.
4. The villain teleports with a shiny ender pearl, then munching on a rare golden apple.
5. The villain fires a massive TNT cannon, then boosting away with a firework rocket.
6. The villain attacks with a sharp diamond sword, then talking to a colorful parrot companion.
7. The villain teleports with a shiny ender pearl, then talking to a colorful parrot companion.
8. The villain bridges across the ocean blocks, then boosting away with a firework rocket.
9. The villain bridges across the ocean blocks, then peers through a heavy brass spyglass.
10. The villain teleports with a shiny ender pearl, then scribbling on an enchanted map.
11. The villain attacks with a sharp diamond sword, then boosting away with a firework rocket.
12. The villain fires a massive TNT cannon, then peers through a heavy brass spyglass.

Answer Key

The Case of the Lost Obsidian Anchor

Culprit: Crafty Carla

Ender Pearl Teleporting · Golden Apple · Left-handed swing · Sunken Gold Locks · Splash Water Potions

Trail: Start 21 → Clue 1 16 → Clue 2 11 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SUSPECT DOES NOT HAVE A PARROT"

Round 107 to the nearest ten = 110 (T) · Round 2,301 to the nearest hundred = 2300 (C) · Round 4,296 to the nearest hundred = 4300 (U) · Round 1,664 to the nearest hundred = 1700 (V) · Round 1,082 to the nearest hundred = 1100 (A) · Round 2,276 to the nearest thousand = 2000 (R) · Round 536 to the nearest hundred = 500 (E) · Round 2,906 to the nearest hundred = 2900 (D) · Round 24 to the nearest ten = 20 (N) · Round 366 to the nearest ten = 370 (O) · Round 427 to the nearest ten = 430 (S) · Round 130 to the nearest ten = 130 (H) · Round 677 to the nearest hundred = 700 (P)

Clue 2 (Addition): "THE FOOTPRINTS LEAN HEAVILY TO THE LEFT"

$6093 + 3182 = 9275$ (T) · $4437 + 3764 = 8201$ (R) · $1197 + 1003 = 2200$ (N) · $1136 + 1610 = 2746$ (A) · $1815 + 904 = 2719$ (V) · $1955 + 1528 = 3483$ (L) · $3123 + 6035 = 9158$ (I) · $627 + 1418 = 2045$ (Y) · $2040 + 2490 = 4530$ (O) · $2007 + 3994 = 6001$ (H) · $2907 + 4829 = 7736$ (S) · $3433 + 3414 = 6847$ (F) · $2090 + 2070 = 4160$ (P) · $3147 + 5340 = 8487$ (E)

Clue 3 (Subtraction): "THE VILLAIN WAS HURT BY SPLASH WATER"

$10897 - 2161 = 8736$ (T) · $7170 - 4661 = 2509$ (W) · $9000 - 466 = 8534$ (L) · $9281 - 3455 = 5826$ (H) · $7675 - 3343 = 4332$ (A) · $11565 - 3465 = 8100$ (P) · $7673 - 3311 = 4362$ (E) · $8022 - 2300 = 5722$ (B) · $4896 - 1048 = 3848$ (V) · $10641 - 2330 = 8311$ (Y) · $6005 - 3167 = 2838$ (U) · $11758 - 4339 = 7419$ (S) · $8999 - 3771 = 5228$ (N) · $10836 - 3754 = 7082$ (I) · $10032 - 4274 = 5758$ (R)

Clue 4 (Multiplication facts (1-12)): "GOLD HAIR DRIFTED IN THE WATER"

$7 \times 5 = 35$ (G) · $7 \times 12 = 84$ (L) · $2 \times 7 = 14$ (R) · $5 \times 11 = 55$ (A) · $7 \times 1 = 7$ (O) · $3 \times 9 = 27$ (D) · $8 \times 7 = 56$ (T) · $4 \times 4 = 16$ (I) · $2 \times 4 = 8$ (H) · $3 \times 12 = 36$ (E) · $11 \times 7 = 77$ (F) · $5 \times 5 = 25$ (N) · $4 \times 11 = 44$ (W)

Clue 5 (Division facts (1-12)): surviving statement is box 4 → Crafty Carla

$18 \div 9 = 2$ · $8 \div 8 = 1$ · $10 \div 2 = 5$ · $12 \div 1 = 12$ · $64 \div 8 = 8$ · $24 \div 8 = 3$ · $49 \div 7 = 7$ · $6 \div 1 = 6$ · $110 \div 11 = 10$ · $77 \div 7 = 11$ · $108 \div 12 = 9$