The Square Sea Mutiny

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

Detective: _____ **Date:** _____

Captain Goldblock hid the enchanted nether star in his cabin block, but a sneaky pirate stole it! Use the clues to figure out who took the loot.

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 scallywag is _____

Possible suspects

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

NAME	PIRATE TOOL	BLOCK PET	PATCH SIDE	BANDANA COLOR	BAIT SNACK
Salty Sam	Gold Spyglass	Cubed Wolf	Right Patch	Blue Bandana	Golden Apple
Captain Cobble	Gold Spyglass	Square Axolotl	Left Patch	Red Bandana	Cooked Fish
Treasure Tina	Gold Spyglass	Pet Squid	Left Patch	Black Bandana	Cooked Fish
Pegleg Pete	Wooden Paddle	Pet Squid	Left Patch	Black Bandana	Golden Apple
Pixel Penny	Gold Spyglass	Pixel Ocelot	Right Patch	Black Bandana	Sweet Berries
Scurvy Sid	TNT Cannon	Pixel Ocelot	Left Patch	Red Bandana	Golden Apple
Barnaby Block	Gold Spyglass	Square Axolotl	Right Patch	Black Bandana	Sweet Berries
Swashbuckler Sue	Diamond Sword	Pet Squid	Right Patch	Blue Bandana	Golden Apple
Anchor Ann	Iron Hook	Pet Squid	Left Patch	Blue Bandana	Golden Apple
Redstone Rita	Gold Spyglass	Pixel Ocelot	Left Patch	Black Bandana	Cooked Fish
Iron Ingrid	TNT Cannon	Pet Squid	Right Patch	Blue Bandana	Sweet Berries
Gravel Greg	TNT Cannon	Pixel Ocelot	Left Patch	Blue Bandana	Cooked Fish
Quartermaster Quincy	Diamond Sword	Pet Squid	Left Patch	Black Bandana	Cooked Fish
Boulder Bob	Diamond Sword	Square Axolotl	Left Patch	Black Bandana	Cooked Fish
Sailor Steve	TNT Cannon	Blocky Parrot	Left Patch	Blue Bandana	Cooked Fish
Gunner Grace	TNT Cannon	Blocky Parrot	Right Patch	Red Bandana	Cooked Fish
Crafty Carla	TNT Cannon	Pixel Ocelot	Right Patch	Black Bandana	Cooked Fish
Navigator Ned	Gold Spyglass	Blocky Parrot	Left Patch	Red Bandana	Cooked Fish
Voxel Victor	Diamond Sword	Blocky Parrot	Left Patch	Black Bandana	Cooked Fish
First Mate Fiona	Iron Hook	Blocky Parrot	Right Patch	Red Bandana	Cooked Fish
Obsidian Owen	Wooden Paddle	Square Axolotl	Right Patch	Red Bandana	Golden Apple

CLUE 1 Rounding

The lookout checked the ship radar, which only shows rounded block distances.

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

T																	T		
110	4300	50	9000	2300	70	70	230	2300	300	900	500	50	370	300	500	110			
4300	230	9000	50	230	370	90	1700	230	1100	50	230	170	500	70	500	110	70		

Round 109 to the nearest ten ☐ → T

Round 1,709 to the nearest hundred ☐ → U

Round 1,121 to the nearest hundred ☐ → R

Round 9,374 to the nearest thousand ☐ → V

Round 66 to the nearest ten ☐ → L

Round 94 to the nearest ten ☐ → Q

Round 372 to the nearest ten ☐ → S

Round 535 to the nearest hundred ☐ → O

Round 870 to the nearest hundred ☐ → D

Round 52 to the nearest ten ☐ → E

Round 174 to the nearest ten ☐ → X

Round 335 to the nearest hundred ☐ → N

Round 229 to the nearest ten ☐ → A

Round 4,259 to the nearest hundred ☐ → H

Round 2,280 to the nearest hundred ☐ → I

Scratch space:

CLUE 2

Addition

First Mate Fiona counted all the iron ingots gathered from the chest total.

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



4534 + 2733 = ☐ → T

921 + 2114 = ☐ → L

3613 + 2577 = ☐ → H

3381 + 3018 = ☐ → Y

4790 + 2204 = ☐ → E

1774 + 1973 = ☐ → N

3642 + 1638 = ☐ → K

4845 + 2979 = ☐ → C

5364 + 3245 = ☐ → A

5794 + 2526 = ☐ → I

2734 + 2525 = ☐ → F

2054 + 1188 = ☐ → R

2491 + 1571 = ☐ → P

2853 + 1720 = ☐ → W

2223 + 2477 = ☐ → O

1016 + 1984 = ☐ → S

Scratch space:

CLUE 3 Subtraction

> The navigator worked out how many gold coins remained after paying the fee.

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



6758 - 417 = ☐ → **T**

6775 - 2216 = ☐ → **S**

7494 - 3802 = ☐ → **P**

9837 - 4764 = ☐ → **W**

3061 - 425 = ☐ → **H**

7114 - 1451 = ☐ → **N**

8498 - 1502 = ☐ → **C**

2627 - 1524 = ☐ → **A**

12538 - 4959 = ☐ → **K**

8270 - 2775 = ☐ → **F**

5823 - 2149 = ☐ → **O**

10680 - 3355 = ☐ → **R**

6239 - 2195 = ☐ → **M**

3661 - 343 = ☐ → **D**

4836 - 3695 = ☐ → **I**

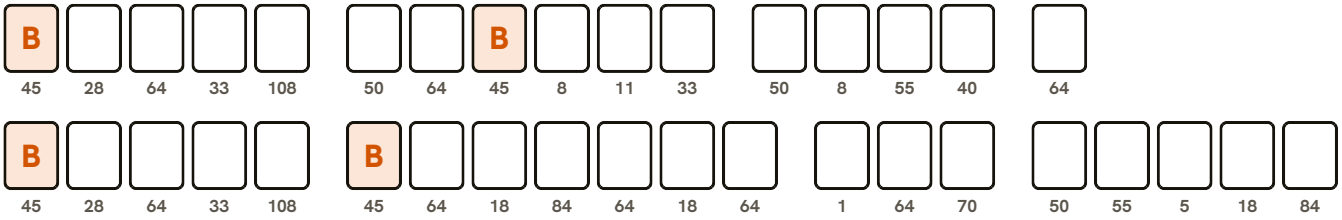
4945 - 2177 = ☐ → **E**

Scratch space:

CLUE 4 Multiplication facts (1-12)

> Quartermaster Quincy tallied the stacks of wooden planks in equal rows.

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



9 × 5 = ☐ → B	12 × 9 = ☐ → K	7 × 4 = ☐ → L
7 × 10 = ☐ → S	8 × 8 = ☐ → A	2 × 9 = ☐ → N
1 × 1 = ☐ → W		
4 × 2 = ☐ → R	11 × 5 = ☐ → O	5 × 1 = ☐ → U
11 × 3 = ☐ → C	8 × 5 = ☐ → M	1 × 11 = ☐ → I
5 × 10 = ☐ → F	7 × 12 = ☐ → D	

Scratch space:

CLUE 5

Division facts (1-12) - the last clue

> Captain Goldblock split the supply crates equally among the sailing teams.

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:

11 ÷ 1 = ☐	56 ÷ 7 = ☐	16 ÷ 8 = ☐	30 ÷ 6 = ☐	28 ÷ 7 = ☐
7 ÷ 1 = ☐	9 ÷ 3 = ☐	48 ÷ 8 = ☐	12 ÷ 12 = ☐	24 ÷ 2 = ☐
20 ÷ 2 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain peered through a gold spyglass, then fed a blocky parrot.
2. The villain peered through a gold spyglass, then scooped up a pet squid.
3. The villain swung a diamond sword, then whistled for a cubed wolf.
4. The villain waved an iron hook, then whistled for a cubed wolf.
5. The villain waved an iron hook, then carried a square axolotl.
6. The villain paddled with a wooden paddle, then tamed a pixel ocelot.
7. The villain lit a tnt cannon, then tamed a pixel ocelot.
8. The villain swung a diamond sword, then fed a blocky parrot.
9. The villain peered through a gold spyglass, then tamed a pixel ocelot.
10. The villain lit a tnt cannon, then scooped up a pet squid.
11. The villain swung a diamond sword, then scooped up a pet squid.
12. The villain paddled with a wooden paddle, then whistled for a cubed wolf.

TEACHER / PARENT

Answer Key

The Square Sea Mutiny

Culprit: Redstone Rita

Gold Spyglass · Pixel Ocelot · Left Patch · Black Bandana · Cooked Fish

Trail: Start 21 → Clue 1 17 → Clue 2 10 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE VILLAIN DOES NOT HAVE A SQUARE AXOLOTL"

Round 109 to the nearest ten = 110 (T) · Round 1,709 to the nearest hundred = 1700 (U) · Round 1,121 to the nearest hundred = 1100 (R) · Round 9,374 to the nearest thousand = 9000 (V) · Round 66 to the nearest ten = 70 (L) · Round 94 to the nearest ten = 90 (Q) · Round 372 to the nearest ten = 370 (S) · Round 535 to the nearest hundred = 500 (O) · Round 870 to the nearest hundred = 900 (D) · Round 52 to the nearest ten = 50 (E) · Round 174 to the nearest ten = 170 (X) · Round 335 to the nearest hundred = 300 (N) · Round 229 to the nearest ten = 230 (A) · Round 4,259 to the nearest hundred = 4300 (H) · Round 2,280 to the nearest hundred = 2300 (I)

Clue 2 (Addition): "THE SNEAKY PIRATE WORE A LEFT EYE PATCH"

4534 + 2733 = 7267 (T) · 921 + 2114 = 3035 (L) · 3613 + 2577 = 6190 (H) · 3381 + 3018 = 6399 (Y) · 4790 + 2204 = 6994 (E) · 1774 + 1973 = 3747 (N) · 3642 + 1638 = 5280 (K) · 4845 + 2979 = 7824 (C) · 5364 + 3245 = 8609 (A) · 5794 + 2526 = 8320 (I) · 2734 + 2525 = 5259 (F) · 2054 + 1188 = 3242 (R) · 2491 + 1571 = 4062 (P) · 2853 + 1720 = 4573 (W) · 2223 + 2477 = 4700 (O) · 1016 + 1984 = 3000 (S)

Clue 3 (Subtraction): "THE CAPTAIN DISTRACTED THEM WITH COOKED FISH"

6758 - 417 = 6341 (T) · 6775 - 2216 = 4559 (S) · 7494 - 3802 = 3692 (P) · 9837 - 4764 = 5073 (W) · 3061 - 425 = 2636 (H) · 7114 - 1451 = 5663 (N) · 8498 - 1502 = 6996 (C) · 2627 - 1524 = 1103 (A) · 12538 - 4959 = 7579 (K) · 8270 - 2775 = 5495 (F) · 5823 - 2149 = 3674 (O) · 10680 - 3355 = 7325 (R) · 6239 - 2195 = 4044 (M) · 3661 - 343 = 3318 (D) · 4836 - 3695 = 1141 (I) · 4945 - 2177 = 2768 (E)

Clue 4 (Multiplication facts (1-12)): "BLACK FABRIC FROM A BLACK BANDANA WAS FOUND"

9 × 5 = 45 (B) · 12 × 9 = 108 (K) · 7 × 4 = 28 (L) · 7 × 10 = 70 (S) · 8 × 8 = 64 (A) · 2 × 9 = 18 (N) · 1 × 1 = 1 (W) · 4 × 2 = 8 (R) · 11 × 5 = 55 (O) · 5 × 1 = 5 (U) · 11 × 3 = 33 (C) · 8 × 5 = 40 (M) · 1 × 11 = 11 (I) · 5 × 10 = 50 (F) · 7 × 12 = 84 (D)

Clue 5 (Division facts (1-12)): surviving statement is box 9 → Redstone Rita

11 ÷ 1 = 11 · 56 ÷ 7 = 8 · 16 ÷ 8 = 2 · 30 ÷ 6 = 5 · 28 ÷ 7 = 4 · 7 ÷ 1 = 7 · 9 ÷ 3 = 3 · 48 ÷ 8 = 6 · 12 ÷ 12 = 1 · 24 ÷ 2 = 12 · 20 ÷ 2 = 10