The Mystery of Skulltooth Cove

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

Detective: _____ **Date:** _____

Someone raided the Harbor Master tower at Skulltooth Cove and snatched the legendary golden telescope! The pirate crew left clues all across the dock. Use your math skills to narrow down the suspects!

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 is _____

Possible suspects

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

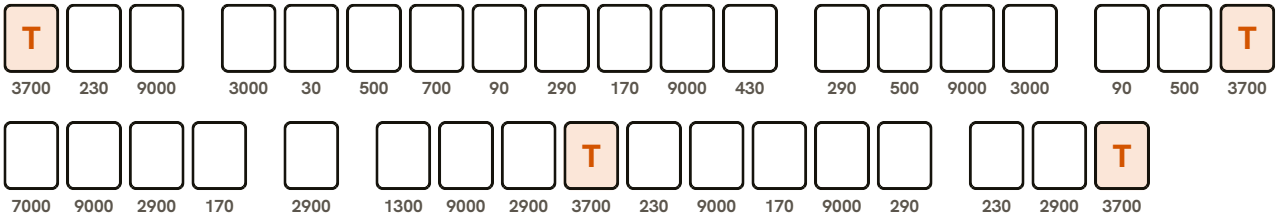
NAME	PIRATE SKILL	PIRATE GEAR	DOMINANT HAND	BEARD STYLE	WEAKNESS
Ching Shih	Sword Sparring	Wooden Pegleg	Left Handed Grip	Red Bushy Beard	Tickled By Feathers
Woodes Rogers	Cannon Aiming	Feathered Hat	Right Handed Grip	Black Braided Beard	Tickled By Feathers
Thomas Tew	Map Reading	Feathered Hat	Right Handed Grip	Black Braided Beard	Tickled By Feathers
Captain Flint	Sword Sparring	Feathered Hat	Left Handed Grip	Silver Long Beard	Scared Of Parrots
Edward England	Anchor Flinging	Brass Spyglass	Left Handed Grip	Silver Long Beard	Tickled By Feathers
Grace O Malley	Rope Swinging	Brass Spyglass	Right Handed Grip	Red Bushy Beard	Tickled By Feathers
Stede Bonnet	Anchor Flinging	Feathered Hat	Left Handed Grip	Red Bushy Beard	Tickled By Feathers
Anne Bonny	Map Reading	Wooden Pegleg	Right Handed Grip	Black Braided Beard	Scared Of Parrots
Charles Vane	Rope Swinging	Silver Whistle	Left Handed Grip	Red Bushy Beard	Allergic To Seaweed
Smee	Sword Sparring	Wooden Pegleg	Left Handed Grip	Silver Long Beard	Scared Of Parrots
Captain Kidd	Rope Swinging	Silver Whistle	Left Handed Grip	Black Braided Beard	Tickled By Feathers
Jack Rackham	Rope Swinging	Silver Whistle	Right Handed Grip	Red Bushy Beard	Scared Of Parrots
Calico Jack	Map Reading	Wooden Pegleg	Left Handed Grip	Red Bushy Beard	Allergic To Seaweed
Captain Blackbeard	Rope Swinging	Gold Compass	Left Handed Grip	Red Bushy Beard	Tickled By Feathers
Charlotte Berry	Anchor Flinging	Gold Compass	Left Handed Grip	Red Bushy Beard	Allergic To Seaweed
Howell Davis	Cannon Aiming	Brass Spyglass	Right Handed Grip	Red Bushy Beard	Allergic To Seaweed
Samuel Bellamy	Sword Sparring	Silver Whistle	Left Handed Grip	Red Bushy Beard	Allergic To Seaweed
Henry Morgan	Rope Swinging	Brass Spyglass	Right Handed Grip	Red Bushy Beard	Allergic To Seaweed
Jean Lafitte	Map Reading	Brass Spyglass	Left Handed Grip	Red Bushy Beard	Tickled By Feathers
Bartholomew Roberts	Map Reading	Brass Spyglass	Left Handed Grip	Red Bushy Beard	Allergic To Seaweed
Sadie Goat	Cannon Aiming	Gold Compass	Left Handed Grip	Red Bushy Beard	Tickled By Feathers

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CLUE 1 Rounding

The harbor lookout radar rounds all ship distances to the nearest hundred leagues.

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



Round 3,714 to the nearest hundred ☐ → T

Round 168 to the nearest ten ☐ → R

Round 289 to the nearest ten ☐ → D

Round 2,649 to the nearest thousand ☐ → S

Round 226 to the nearest ten ☐ → H

Round 2,924 to the nearest hundred ☐ → A

Round 6,501 to the nearest thousand ☐ → W

Round 87 to the nearest ten ☐ → N

Round 1,305 to the nearest hundred ☐ → F

Round 32 to the nearest ten ☐ → C

Round 434 to the nearest ten ☐ → L

Round 9,037 to the nearest thousand ☐ → E

Round 684 to the nearest hundred ☐ → U

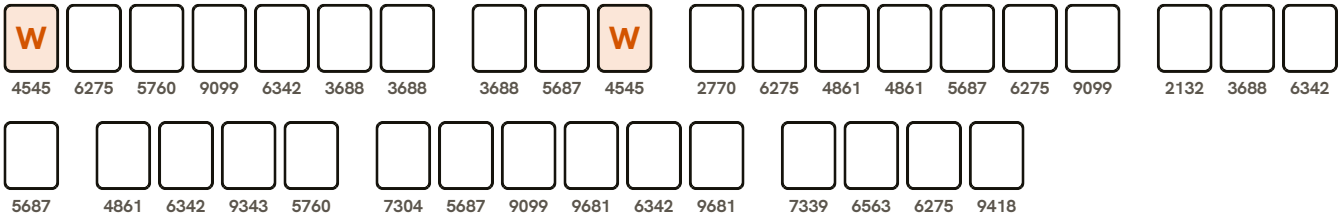
Round 473 to the nearest hundred ☐ → O

Scratch space:

CLUE 2 Addition

Quartermaster Pete tallied up the wooden crates of sea biscuits found on deck.

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



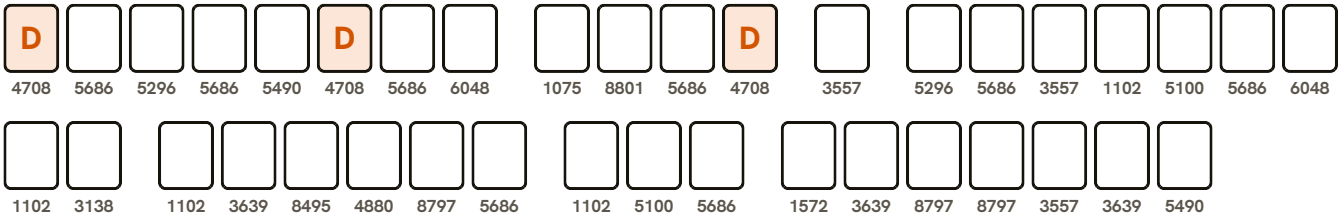
3034 + 1511 = ☐ → W	1234 + 898 = ☐ → U	2988 + 3354 = ☐ → E
2273 + 5031 = ☐ → H	3798 + 1889 = ☐ → A	3293 + 5806 = ☐ → N
2495 + 4068 = ☐ → R	2387 + 2474 = ☐ → L	4021 + 5322 = ☐ → F
3331 + 2429 = ☐ → T	1295 + 1475 = ☐ → V	4313 + 3026 = ☐ → G
1569 + 2119 = ☐ → S	6758 + 2923 = ☐ → D	6195 + 3223 = ☐ → P
2401 + 3874 = ☐ → I		

Scratch space:

CLUE 3 Subtraction

First Mate Maya counted the remaining barrels of fresh water after the voyage.

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



9650 - 4942 = ☐ → D

12993 - 4192 = ☐ → S

5988 - 4886 = ☐ → T

5676 - 2037 = ☐ → I

7351 - 3794 = ☐ → A

7693 - 4555 = ☐ → O

11602 - 3107 = ☐ → C

6875 - 1995 = ☐ → K

6490 - 804 = ☐ → E

9250 - 453 = ☐ → L

6394 - 904 = ☐ → N

9734 - 4438 = ☐ → F

8331 - 3231 = ☐ → H

5143 - 4068 = ☐ → U

7678 - 1630 = ☐ → R

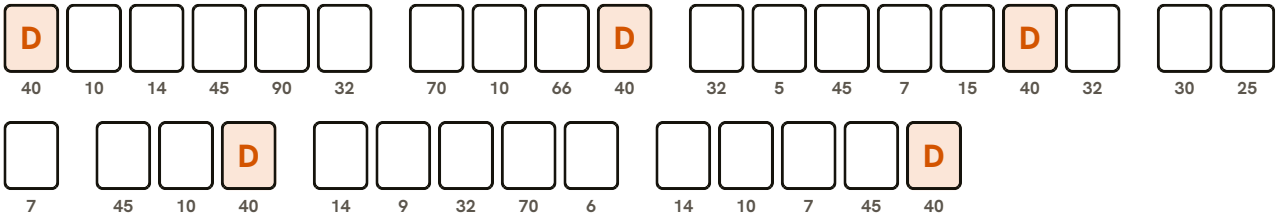
4361 - 2789 = ☐ → V

Scratch space:

CLUE 4 Multiplication facts (1-12)

> The ship armorer arranged cannonballs into equal rows along the deck.

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



8 × 5 = ☐ → D	5 × 1 = ☐ → T	5 × 3 = ☐ → N	1 × 7 = ☐ → A
6 × 1 = ☐ → Y	5 × 5 = ☐ → F	5 × 6 = ☐ → O	10 × 7 = ☐ → H
4 × 8 = ☐ → S	1 × 9 = ☐ → U	5 × 9 = ☐ → R	9 × 10 = ☐ → I
11 × 6 = ☐ → L	7 × 2 = ☐ → B	5 × 2 = ☐ → E	

Scratch space:

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

> Captain Redbeard split the stash of silver doubloons equally among the crew.

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:

63 ÷ 7 = ☐ | 6 ÷ 6 = ☐ | 8 ÷ 2 = ☐ | 60 ÷ 5 = ☐ | 35 ÷ 7 = ☐

88 ÷ 8 = ☐ | 22 ÷ 11 = ☐ | 18 ÷ 6 = ☐ | 24 ÷ 3 = ☐ | 35 ÷ 5 = ☐

120 ÷ 12 = ☐

Step 2 - cross out the sentence with each answer:

1. The villain plotted a course on the chart, then peered through a brass spyglass.
2. The villain aimed the grand bronze cannon, then adjusted a tall feathered hat.
3. The villain plotted a course on the chart, then tapped a sturdy wooden pegleg.
4. The villain aimed the grand bronze cannon, then flashed a gleaming gold compass.
5. The villain heaved the heavy iron anchor, then tapped a sturdy wooden pegleg.
6. The villain sparred with a shiny cutlass, then flashed a gleaming gold compass.
7. The villain sparred with a shiny cutlass, then peered through a brass spyglass.
8. The villain aimed the grand bronze cannon, then peered through a brass spyglass.
9. The villain swung across on a thick rope, then tapped a sturdy wooden pegleg.
10. The villain aimed the grand bronze cannon, then tapped a sturdy wooden pegleg.
11. The villain sparred with a shiny cutlass, then blew a sharp silver whistle.
12. The villain heaved the heavy iron anchor, then flashed a gleaming gold compass.

TEACHER / PARENT

Answer Key

The Mystery of Skulltooth Cove

Culprit: Captain Blackbeard

Rope Swinging · Gold Compass · Left Handed Grip · Red Bushy Beard · Tickled By Feathers

Trail: Start 21 → Clue 1 17 → Clue 2 12 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Rounding): "THE SCOUNDREL DOES NOT WEAR A FEATHERED HAT"

Round 3,714 to the nearest hundred = 3700 (T) · Round 168 to the nearest ten = 170 (R) · Round 289 to the nearest ten = 290 (D) · Round 2,649 to the nearest thousand = 3000 (S) · Round 226 to the nearest ten = 230 (H) · Round 2,924 to the nearest hundred = 2900 (A) · Round 6,501 to the nearest thousand = 7000 (W) · Round 87 to the nearest ten = 90 (N) · Round 1,305 to the nearest hundred = 1300 (F) · Round 32 to the nearest ten = 30 (C) · Round 434 to the nearest ten = 430 (L) · Round 9,037 to the nearest thousand = 9000 (E) · Round 684 to the nearest hundred = 700 (U) · Round 473 to the nearest hundred = 500 (O)

Clue 2 (Addition): "WITNESS SAW VILLAIN USE A LEFT HANDED GRIP"

3034 + 1511 = 4545 (W) · 1234 + 898 = 2132 (U) · 2988 + 3354 = 6342 (E) · 2273 + 5031 = 7304 (H) · 3798 + 1889 = 5687 (A) · 3293 + 5806 = 9099 (N) · 2495 + 4068 = 6563 (R) · 2387 + 2474 = 4861 (L) · 4021 + 5322 = 9343 (F) · 3331 + 2429 = 5760 (T) · 1295 + 1475 = 2770 (V) · 4313 + 3026 = 7339 (G) · 1569 + 2119 = 3688 (S) · 6758 + 2923 = 9681 (D) · 6195 + 3223 = 9418 (P) · 2401 + 3874 = 6275 (I)

Clue 3 (Subtraction): "DEFENDER USED A FEATHER TO TICKLE THE VILLAIN"

9650 - 4942 = 4708 (D) · 12993 - 4192 = 8801 (S) · 5988 - 4886 = 1102 (T) · 5676 - 2037 = 3639 (I) · 7351 - 3794 = 3557 (A) · 7693 - 4555 = 3138 (O) · 11602 - 3107 = 8495 (C) · 6875 - 1995 = 4880 (K) · 6490 - 804 = 5686 (E) · 9250 - 453 = 8797 (L) · 6394 - 904 = 5490 (N) · 9734 - 4438 = 5296 (F) · 8331 - 3231 = 5100 (H) · 5143 - 4068 = 1075 (U) · 7678 - 1630 = 6048 (R) · 4361 - 2789 = 1572 (V)

Clue 4 (Multiplication facts (1-12)): "DEBRIS HELD STRANDS OF A RED BUSHY BEARD"

8 × 5 = 40 (D) · 5 × 1 = 5 (T) · 5 × 3 = 15 (N) · 1 × 7 = 7 (A) · 6 × 1 = 6 (Y) · 5 × 5 = 25 (F) · 5 × 6 = 30 (O) · 10 × 7 = 70 (H) · 4 × 8 = 32 (S) · 1 × 9 = 9 (U) · 5 × 9 = 45 (R) · 9 × 10 = 90 (I) · 11 × 6 = 66 (L) · 7 × 2 = 14 (B) · 5 × 2 = 10 (E)

Clue 5 (Division facts (1-12)): surviving statement is box 6 → Captain Blackbeard

63 ÷ 7 = 9 · 6 ÷ 6 = 1 · 8 ÷ 2 = 4 · 60 ÷ 5 = 12 · 35 ÷ 7 = 5 · 88 ÷ 8 = 11 · 22 ÷ 11 = 2 · 18 ÷ 6 = 3 · 24 ÷ 3 = 8 · 35 ÷ 5 = 7 · 120 ÷ 12 = 10