The Mystery of the Crimson Galleon

Grade 4 math · Addition, Multiplication, Subtraction, Skip counting, Division · Reading level grades 7-9

Detective: _____ **Date:** _____

A rogue pirate breached the Captain cabin under cover of a midnight storm and stole the ancient treasure chart of Blackbeard. Analyze the clues to uncover the culprit before they escape across the Spanish Main.

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 mutineer is _____

Possible suspects

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

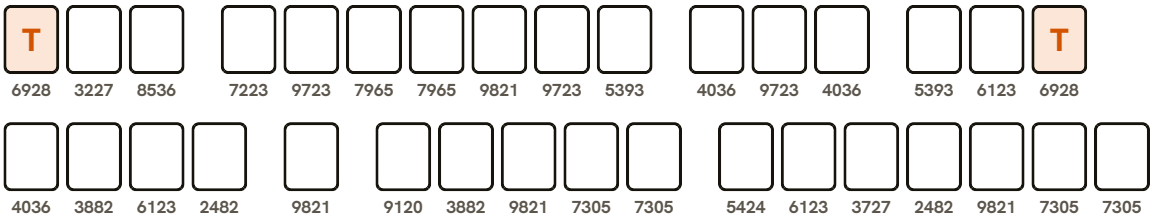
NAME	PRIMARY WEAPON	SECONDARY GEAR	DOMINANT HAND	BANDANA COLOR	PHOBIA
Samuel Bellamy	Boarding Axe	Pocket Map	Left-Handed	Crimson Bandana	Bright Sunlight
Charlotte de Berry	Blunderbuss	Spyglass	Right-Handed	Midnight Bandana	Bright Sunlight
Howell Davis	Blunderbuss	Grappling Hook	Right-Handed	Midnight Bandana	Bright Sunlight
Zheng Yi Sao	Flintlock Pistol	Grappling Hook	Left-Handed	Midnight Bandana	Bright Sunlight
Henry Morgan	Boarding Axe	Grappling Hook	Right-Handed	Crimson Bandana	Bright Sunlight
Grace O Malley	Flintlock Pistol	Grappling Hook	Left-Handed	Crimson Bandana	Loud Thunder
Francois l Ollonais	Blunderbuss	Brass Lantern	Left-Handed	Crimson Bandana	Loud Thunder
Jack Rackham	Boarding Axe	Spyglass	Right-Handed	Sea Green Bandana	Loud Thunder
Charles Vane	Blunderbuss	Brass Lantern	Right-Handed	Crimson Bandana	Loud Thunder
Redbeard Vance	Iron Marlinspike	Spyglass	Right-Handed	Crimson Bandana	Bright Sunlight
Sayyida al Hurra	Flintlock Pistol	Pocket Map	Left-Handed	Sea Green Bandana	Loud Thunder
Anne Bonny	Flintlock Pistol	Brass Lantern	Left-Handed	Crimson Bandana	Squeaking Rats
Woodes Rogers	Flintlock Pistol	Pocket Map	Right-Handed	Midnight Bandana	Bright Sunlight
Mary Read	Blunderbuss	Spyglass	Right-Handed	Sea Green Bandana	Loud Thunder
Khair ad Din	Boarding Axe	Brass Compass	Left-Handed	Crimson Bandana	Squeaking Rats
Thomas Tew	Blunderbuss	Grappling Hook	Left-Handed	Midnight Bandana	Bright Sunlight
William Kidd	Cutlass	Brass Compass	Right-Handed	Midnight Bandana	Bright Sunlight
Stede Bonnet	Blunderbuss	Spyglass	Right-Handed	Midnight Bandana	Loud Thunder
Bartholomew Roberts	Flintlock Pistol	Brass Lantern	Right-Handed	Midnight Bandana	Loud Thunder
Edward Low	Boarding Axe	Spyglass	Right-Handed	Midnight Bandana	Bright Sunlight
Jean Lafitte	Iron Marlinspike	Grappling Hook	Left-Handed	Midnight Bandana	Loud Thunder

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CLUE 1 Addition

> Quartermaster Gibbs tallied the recovered silver doubloons from the cargo hold to see how much booty remained after the midnight raid.

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



3933 + 2995 = ☐ → T

3256 + 4049 = ☐ → S

3632 + 6091 = ☐ → I

4696 + 3269 = ☐ → L

3691 + 1702 = ☐ → N

2501 + 1226 = ☐ → M

1308 + 2728 = ☐ → D

1605 + 877 = ☐ → P

3430 + 5106 = ☐ → E

4230 + 1893 = ☐ → O

6722 + 3099 = ☐ → A

2995 + 6125 = ☐ → B

3524 + 1900 = ☐ → C

1750 + 2132 = ☐ → R

1087 + 2140 = ☐ → H

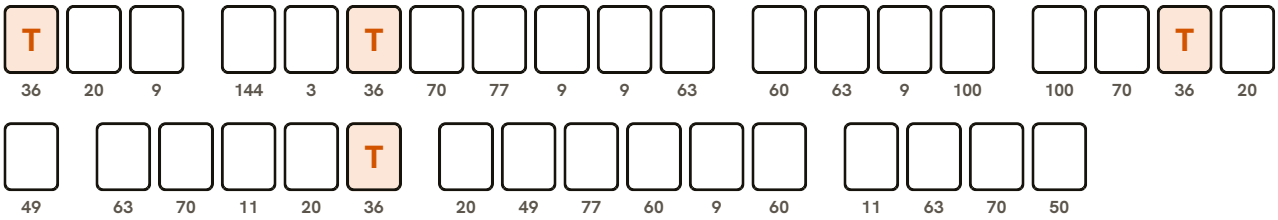
2553 + 4670 = ☐ → V

Scratch space:

CLUE 2 Multiplication facts (1-12)

> Navigator Hayes organized the crate storage into identical grid rows across the lower gundeck to secure the powder kegs before the storm.

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



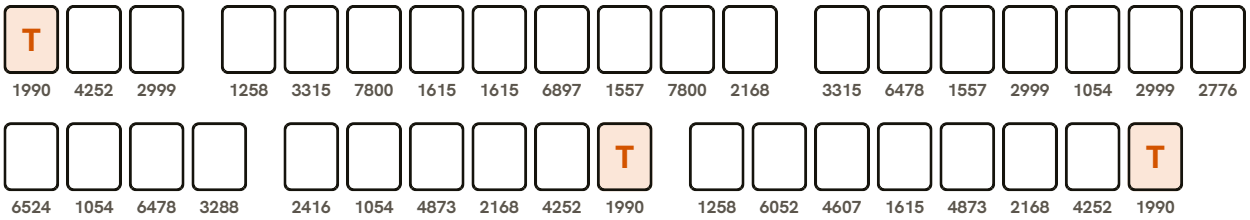
6 × 6 = ☐ → T	10 × 10 = ☐ → W	10 × 7 = ☐ → I
10 × 6 = ☐ → D	9 × 7 = ☐ → R	5 × 10 = ☐ → P
4 × 5 = ☐ → H	11 × 7 = ☐ → N	12 × 12 = ☐ → M
1 × 11 = ☐ → G	7 × 7 = ☐ → A	3 × 1 = ☐ → U
9 × 1 = ☐ → E		

Scratch space:

CLUE 3 Subtraction

> First Mate Vance calculated how many iron cannonballs were missing from the armory stack after the intruder escaped into the fog.

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



6147 - 4157 = ☐ → T

4434 - 182 = ☐ → H

8902 - 2850 = ☐ → U

7411 - 4096 = ☐ → C

5962 - 3186 = ☐ → D

4987 - 2571 = ☐ → B

6742 - 1869 = ☐ → I

7930 - 1406 = ☐ → F

11768 - 3968 = ☐ → A

5158 - 3900 = ☐ → S

2944 - 1387 = ☐ → W

5436 - 3268 = ☐ → G

4701 - 3647 = ☐ → R

5179 - 572 = ☐ → N

7064 - 586 = ☐ → O

4448 - 1160 = ☐ → M

3373 - 1758 = ☐ → L

8613 - 1716 = ☐ → Y

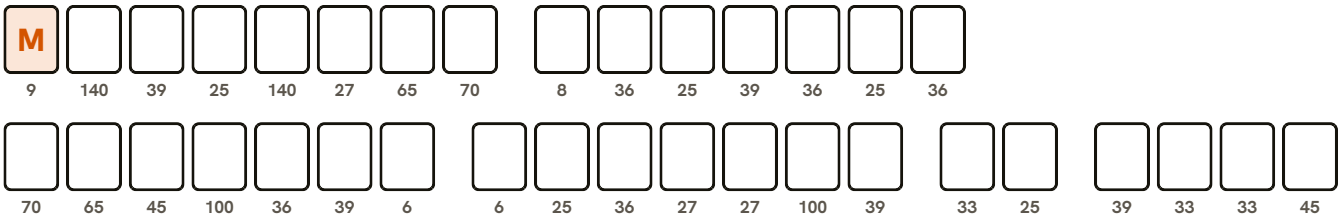
4503 - 1504 = ☐ → E

Scratch space:

CLUE 4 Skip counting

> Lookout Pete counted the wooden rungs on the main mast shroud by leaps to determine how high the suspect climbed.

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



Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 ☐ → **M**

Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 ☐ → **S**

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

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

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 ☐ → **N**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 ☐ → **H**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 ☐ → **T**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 ☐ → **A**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 ☐ → **I**

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

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

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

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

Scratch space:

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

> Boatswain Drake divided the ration sea biscuits equally among the surviving watchmen to check who received an extra share.

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:

33 ÷ 11 = ☐	96 ÷ 12 = ☐	49 ÷ 7 = ☐	5 ÷ 5 = ☐	24 ÷ 6 = ☐
60 ÷ 12 = ☐	90 ÷ 10 = ☐	6 ÷ 3 = ☐	60 ÷ 6 = ☐	24 ÷ 2 = ☐
77 ÷ 7 = ☐				

Step 2 - cross out the sentence with each answer:

1. The villain fired a flintlock pistol, then shined a brass lantern.
2. The villain brandished an iron marlinspike, then dropped a spyglass.
3. The villain swung a boarding axe, then dropped a spyglass.
4. The villain brandished an iron marlinspike, then shined a brass lantern.
5. The villain fired a flintlock pistol, then hooked a grappling line.
6. The villain fired a flintlock pistol, then tore a pocket map.
7. The villain blasted a blunderbuss, then hooked a grappling line.
8. The villain blasted a blunderbuss, then dropped a spyglass.
9. The villain blasted a blunderbuss, then lost a brass compass.
10. The villain swung a boarding axe, then hooked a grappling line.
11. The villain swung a boarding axe, then shined a brass lantern.
12. The villain blasted a blunderbuss, then shined a brass lantern.

TEACHER / PARENT

Answer Key

The Mystery of the Crimson Galleon

Culprit: Woodes Rogers

Flintlock Pistol · Pocket Map · Right-Handed · Midnight Bandana · Bright Sunlight

Trail: Start 21 → Clue 1 19 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE VILLAIN DID NOT DROP A BRASS COMPASS"

3933 + 2995 = 6928 (T) · 3256 + 4049 = 7305 (S) · 3632 + 6091 = 9723 (I) · 4696 + 3269 = 7965 (L) · 3691 + 1702 = 5393 (N) · 2501 + 1226 = 3727 (M) · 1308 + 2728 = 4036 (D) · 1605 + 877 = 2482 (P) · 3430 + 5106 = 8536 (E) · 4230 + 1893 = 6123 (O) · 6722 + 3099 = 9821 (A) · 2995 + 6125 = 9120 (B) · 3524 + 1900 = 5424 (C) · 1750 + 2132 = 3882 (R) · 1087 + 2140 = 3227 (H) · 2553 + 4670 = 7223 (V)

Clue 2 (Multiplication facts (1-12)): "THE MUTINEER DREW WITH A RIGHT HANDED GRIP"

6 × 6 = 36 (T) · 10 × 10 = 100 (W) · 10 × 7 = 70 (I) · 10 × 6 = 60 (D) · 9 × 7 = 63 (R) · 5 × 10 = 50 (P) · 4 × 5 = 20 (H) · 11 × 7 = 77 (N) · 12 × 12 = 144 (M) · 1 × 11 = 11 (G) · 7 × 7 = 49 (A) · 3 × 1 = 3 (U) · 9 × 1 = 9 (E)

Clue 3 (Subtraction): "THE SCALLYWAG COWERED FROM BRIGHT SUNLIGHT"

6147 - 4157 = 1990 (T) · 4434 - 182 = 4252 (H) · 8902 - 2850 = 6052 (U) · 7411 - 4096 = 3315 (C) · 5962 - 3186 = 2776 (D) · 4987 - 2571 = 2416 (B) · 6742 - 1869 = 4873 (I) · 7930 - 1406 = 6524 (F) · 11768 - 3968 = 7800 (A) · 5158 - 3900 = 1258 (S) · 2944 - 1387 = 1557 (W) · 5436 - 3268 = 2168 (G) · 4701 - 3647 = 1054 (R) · 5179 - 572 = 4607 (N) · 7064 - 586 = 6478 (O) · 4448 - 1160 = 3288 (M) · 3373 - 1758 = 1615 (L) · 8613 - 1716 = 6897 (Y) · 4503 - 1504 = 2999 (E)

Clue 4 (Skip counting): "MIDNIGHT BANDANA THREADS SNAGGED ON DOOR"

Skip-count by 3s. Fill the blank: 3, 6, ___, 12, 15 = 9 (M) · Skip-count by 2s. Fill the blank: 2, 4, ___, 8, 10 = 6 (S) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, ___, 30, 33 = 27 (G) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, ___, 110, 120 = 100 (E) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, ___, 30, 35 = 25 (N) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, ___, 70, 75 = 65 (H) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, ___, 75, 80 = 70 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, ___, 39, 42 = 36 (A) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, ___, 150, 160 = 140 (I) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, ___, 50, 55 = 45 (R) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, ___, 42, 45 = 39 (D) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, ___, 36, 39 = 33 (O) · Skip-count by 2s. Fill the blank: 2, 4, 6, ___, 10, 12 = 8 (B)

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

33 ÷ 11 = 3 · 96 ÷ 12 = 8 · 49 ÷ 7 = 7 · 5 ÷ 5 = 1 · 24 ÷ 6 = 4 · 60 ÷ 12 = 5 · 90 ÷ 10 = 9 · 6 ÷ 3 = 2 · 60 ÷ 6 = 10 · 24 ÷ 2 = 12 · 77 ÷ 7 = 11