



The Mystery of the Missing Map

Grade 3 math · Rounding, Addition, Subtraction, Multiplication, Division · Reading level grades 1-2

Detective: _____ Date: _____

The mayor's favorite golden key is missing! The thief left salty boot prints all over the ship deck. We need to find the right pirate and get the key back before they sail away.

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 pirate thief 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	HANDEDNESS	BANDANA COLOR	GREATEST FEAR
Patchy Pete	cannon blast	parrot friend	left handed	green bandana	allergic to limes
Sailor Sally	cannon blast	iron pegleg	left handed	green bandana	hates sea monsters
Blackbeard	helm steering	golden hook	left handed	blue bandana	allergic to limes
Ben Gunn	sword swing	magic compass	right handed	blue bandana	scared of sharks
Captain Silver	rope swinging	parrot friend	right handed	blue bandana	allergic to limes
Pegleg Pete	helm steering	iron pegleg	left handed	green bandana	allergic to limes
Calico Jack	helm steering	iron pegleg	left handed	blue bandana	hates sea monsters
Red Beard	helm steering	magic compass	left handed	blue bandana	allergic to limes
Captain Drake	helm steering	iron pegleg	left handed	blue bandana	allergic to limes
Jolly Roger	rope swinging	parrot friend	left handed	red bandana	hates sea monsters
Israel Hands	cannon blast	magic compass	left handed	red bandana	allergic to limes
Captain Hook	helm steering	magic compass	left handed	blue bandana	scared of sharks
Scurvy Sue	helm steering	silver spyglass	right handed	green bandana	allergic to limes
Barnaby Blue	rope swinging	silver spyglass	left handed	blue bandana	allergic to limes
Billy Bones	sword swing	magic compass	right handed	green bandana	hates sea monsters
Captain Kidd	map reading	golden hook	left handed	blue bandana	scared of sharks
Henry Morgan	rope swinging	iron pegleg	right handed	blue bandana	scared of sharks
Anne Bonny	helm steering	magic compass	right handed	green bandana	scared of sharks
Mary Read	cannon blast	magic compass	left handed	blue bandana	allergic to limes
Long John	helm steering	golden hook	right handed	red bandana	hates sea monsters
Salty Sam	cannon blast	parrot friend	left handed	red bandana	scared of sharks

CLUE 1

The rusty scale on the dock is very old. It only shows weights rounded to the nearest ten pounds. We weighed the clue to read it.

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

A number line from 0 to 10,000. The line is marked with the following numbers in boxes: 500, 300, 40, 5000, 2000, 8000, 8000, 800, 80, 8000, 40, 700, 900, 8000, 500, 300, 90, 600, 40. The number 500 is highlighted in orange.

Round 517 to the nearest hundred $\rightarrow$ **T**

Round 5,397 to the nearest thousand → **C**

Round 587 to the nearest hundred → **V**

Round 289 to the nearest hundred $\rightarrow$ **H**

Round 42 to the nearest ten → **E**

Round 87 to the nearest ten $\rightarrow$ **A**

Round 66 to the nearest ten $\rightarrow$ **L**

Round 668 to the nearest hundred $\rightarrow$ **S**

Round 927 to the nearest hundred → **N**

Round 7,863 to the nearest thousand → ☐

Round 77 to the nearest ten $\rightarrow$ **D**

Round 799 to the nearest hundred $\rightarrow$ **K**

Round 387 to the nearest hundred $\rightarrow$

Round 163 to the nearest hundred $\rightarrow$ **G**

Round 57 to the nearest ten $\rightarrow$ **P**

Round 2,134 to the nearest thousand → **R**

Scratch space:

CLUE 2 **Addition**

The ship mates counted the crates on deck. We added the piles together to find the next clue.

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

A number line from 0 to 1000 with major ticks every 100 units. The numbers 786, 891, 745, 413, 515, 721, 366, 826, 754, 721, 366, 698, 698, 745, 745, and 246 are marked below the line. The number 786 is marked with an orange 'T'.

$$266 + 520 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$493 + 333 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$264 + 457 = \boxed{} \rightarrow \boxed{\text{W}}$$

$115 + 131 = \boxed{} \rightarrow \boxed{\text{N}}$

$125 + 288 = \boxed{} \rightarrow \boxed{\text{C}}$

$$453 + 278 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$438 + 453 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$194 + 321 = \boxed{} \rightarrow \boxed{\mathbf{0}}$$

$$378 + 367 = \boxed{} \rightarrow \boxed{\text{E}}$$

$197 + 169 = \boxed{} \rightarrow \boxed{\mathbf{A}}$

$$340 + 434 = \boxed{} \rightarrow \boxed{}$$

$$226 + 528 = \boxed{} \rightarrow \boxed{\mathbf{D}}$$

$220 + 143 = \boxed{} \rightarrow \boxed{\mathbf{G}}$

$$312 + 386 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$197 + 284 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$386 + 324 = \boxed{} \rightarrow \boxed{\text{U}}$$

Scratch space:

Subtraction

A hungry seagull took some biscuits from our box. We subtracted the stolen food to find the clue underneath.

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

732 106 783 309 652 352 783 783 421 783 497 576 106 783 352 732 106 783 309

652 791 783 288 288 783 497 578 288 199 791 783

$1109 - 377 = \boxed{} \rightarrow \boxed{\text{T}}$

$618 - 266 = \boxed{} \rightarrow \boxed{\text{N}}$

$$596 - 308 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$861 - 364 = \boxed{} \rightarrow \boxed{\text{D}}$$

$438 - 17 = \boxed{} \rightarrow \boxed{\mathbf{Z}}$

$756 - 178 = \boxed{} \rightarrow \boxed{\text{A}}$

$1006 - 215 = \boxed{} \rightarrow \boxed{\text{M}}$

$$667 - 358 = \boxed{} \rightarrow \boxed{\text{Y}}$$

$$754 - 102 = \boxed{} \rightarrow \boxed{\text{S}}$$

$1151 - 368 = \boxed{} \rightarrow \boxed{\text{E}}$

$$303 - 104 = \boxed{} \rightarrow \boxed{\text{I}}$$

$$724 - 148 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$289 - 183 = \boxed{} \rightarrow \boxed{\text{H}}$$

Scratch space:

CLUE 4
Multiplication facts (1-12)

The pirates stand in neat rows on the deck. We multiplied the rows to count them and unlock the cabin door.

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

W																	
81	7	12	20	88	66	44	90	30	88	7	90	63	66	44	63	66	63

21	9	8	7	63	44	54

$9 \times 9 = \square \rightarrow$ W	$2 \times 4 = \square \rightarrow$ R	$9 \times 10 = \square \rightarrow$ B
$11 \times 8 = \square \rightarrow$ U	$9 \times 6 = \square \rightarrow$ S	$7 \times 3 = \square \rightarrow$ T
$10 \times 3 = \square \rightarrow$ L	$9 \times 7 = \square \rightarrow$ A	$5 \times 4 = \square \rightarrow$ O
$4 \times 11 = \square \rightarrow$ D	$7 \times 1 = \square \rightarrow$ E	$11 \times 6 = \square \rightarrow$ N
$3 \times 3 = \square \rightarrow$ H	$12 \times 1 = \square \rightarrow$ F	

Scratch space:

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

The crew shared the magic gold coins equally. We divided the loot into piles to find 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:

$9 \div 3 = \boxed{}$

$7 \div 7 = \boxed{}$

$84 \div 12 = \boxed{}$

$80 \div 10 = \boxed{}$

$40 \div 4 = \boxed{}$

$96 \div 8 = \boxed{}$

$63 \div 7 = \boxed{}$

$15 \div 3 = \boxed{}$

$2 \div 1 = \boxed{}$

$28 \div 7 = \boxed{}$

$42 \div 7 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain steers the giant ship wheel, then waves a shiny golden hook.
2. The villain steers the giant ship wheel, then looks through a silver spyglass.
3. The villain steers the giant ship wheel, then checks a glowing magic compass.
4. The villain studies the old treasure map, then looks through a silver spyglass.
5. The villain studies the old treasure map, then taps loudly with an iron pegleg.
6. The villain swings a heavy wooden sword, then waves a shiny golden hook.
7. The villain fires the big loud cannon, then checks a glowing magic compass.
8. The villain fires the big loud cannon, then taps loudly with an iron pegleg.
9. The villain swings on a long dirty rope, then checks a glowing magic compass.
10. The villain steers the giant ship wheel, then feeds cracker to a parrot friend.
11. The villain swings on a long dirty rope, then looks through a silver spyglass.
12. The villain swings on a long dirty rope, then taps loudly with an iron pegleg.

Answer Key

The Mystery of the Missing Map

Culprit: Barnaby Blue

rope swinging · silver spyglass · left handed · blue bandana · allergic to limes

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

Clue 1 (Rounding): "THE CROOK DOES NOT HAVE AN IRON PEGLEG"

Round 517 to the nearest hundred = 500 (T) · Round 5,397 to the nearest thousand = 5000 (C) · Round 587 to the nearest hundred = 600 (V) · Round 289 to the nearest hundred = 300 (H) · Round 42 to the nearest ten = 40 (E) · Round 87 to the nearest ten = 90 (A) · Round 66 to the nearest ten = 70 (L) · Round 668 to the nearest hundred = 700 (S) · Round 927 to the nearest hundred = 900 (N) · Round 7,863 to the nearest thousand = 8000 (O) · Round 77 to the nearest ten = 80 (D) · Round 799 to the nearest hundred = 800 (K) · Round 387 to the nearest hundred = 400 (I) · Round 163 to the nearest hundred = 200 (G) · Round 57 to the nearest ten = 60 (P) · Round 2,134 to the nearest thousand = 2000 (R)

Clue 2 (Addition): "THE COWARD WAS SEEN USING THEIR LEFT HAND"

$266 + 520 = 786$ (T) · $493 + 333 = 826$ (R) · $264 + 457 = 721$ (W) · $115 + 131 = 246$ (N) · $125 + 288 = 413$ (C) · $453 + 278 = 731$ (F) · $438 + 453 = 891$ (H) · $194 + 321 = 515$ (O) · $378 + 367 = 745$ (E) · $197 + 169 = 366$ (A) · $340 + 434 = 774$ (I) · $226 + 528 = 754$ (D) · $220 + 143 = 363$ (G) · $312 + 386 = 698$ (S) · $197 + 284 = 481$ (L) · $386 + 324 = 710$ (U)

Clue 3 (Subtraction): "THEY SNEEZED WHEN THEY SMELLED A LIME"

$1109 - 377 = 732$ (T) · $618 - 266 = 352$ (N) · $596 - 308 = 288$ (L) · $861 - 364 = 497$ (D) · $438 - 17 = 421$ (Z) · $756 - 178 = 578$ (A) · $1006 - 215 = 791$ (M) · $667 - 358 = 309$ (Y) · $754 - 102 = 652$ (S) · $1151 - 368 = 783$ (E) · $303 - 104 = 199$ (I) · $724 - 148 = 576$ (W) · $289 - 183 = 106$ (H)

Clue 4 (Multiplication facts (1-12)): "WE FOUND BLUE BANDANA THREADS"

$9 \times 9 = 81$ (W) · $2 \times 4 = 8$ (R) · $9 \times 10 = 90$ (B) · $11 \times 8 = 88$ (U) · $9 \times 6 = 54$ (S) · $7 \times 3 = 21$ (T) · $10 \times 3 = 30$ (L) · $9 \times 7 = 63$ (A) · $5 \times 4 = 20$ (O) · $4 \times 11 = 44$ (D) · $7 \times 1 = 7$ (E) · $11 \times 6 = 66$ (N) · $3 \times 3 = 9$ (H) · $12 \times 1 = 12$ (F)

Clue 5 (Division facts (1-12)): surviving statement is box 11 → Barnaby Blue

$9 \div 3 = 3$ · $7 \div 7 = 1$ · $84 \div 12 = 7$ · $80 \div 10 = 8$ · $40 \div 4 = 10$ · $96 \div 8 = 12$ · $63 \div 7 = 9$ · $15 \div 3 = 5$ · $2 \div 1 = 2$ · $28 \div 7 = 4$ · $42 \div 7 = 6$