



The Great Beacon Heist

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

Detective: _____ Date: _____

A mystery griever broke into the fortress vault and snatched the main beacon crystal! Solve the math clues to uncover who did it.

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 grieving rogue is _____

Possible suspects

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

NAME	PRIMARY TOOL	OFFHAND ITEM	WRISTBAND HAND	HELMET STYLE	BAN ITEM
Diamond Daisy	Diamond Pickaxe	Ender Pearl	Right Wristband	Leather Cap	Bucket of Milk
Captain Spark	Diamond Pickaxe	Fire Charge	Left Wristband	Leather Cap	Bucket of Milk
Nora Nether	Golden Shovel	Totem of Undying	Right Wristband	Leather Cap	Music Disc
Alex Crafts	Netherite Sword	Wooden Shield	Left Wristband	Leather Cap	Bucket of Milk
Pixel Pete	Diamond Pickaxe	Wooden Shield	Left Wristband	Turtle Shell	Bucket of Milk
Ryan Redstone	Enchanted Bow	Ender Pearl	Left Wristband	Turtle Shell	Music Disc
Cobble Carl	Netherite Sword	Wooden Shield	Left Wristband	Turtle Shell	Bucket of Milk
Skelie Sam	Netherite Sword	Fire Charge	Left Wristband	Leather Cap	Bucket of Milk
Gravel Greg	Golden Shovel	Fire Charge	Left Wristband	Turtle Shell	Music Disc
Blocky Bella	Diamond Pickaxe	Golden Apple	Left Wristband	Leather Cap	Bucket of Milk
Dan TDM	Netherite Sword	Fire Charge	Left Wristband	Turtle Shell	Music Disc
Crafty Chloe	Redstone Torch	Totem of Undying	Right Wristband	Iron Helmet	Splash Potion
Grian Build	Redstone Torch	Fire Charge	Left Wristband	Turtle Shell	Bucket of Milk
Sammy Slime	Redstone Torch	Wooden Shield	Left Wristband	Leather Cap	Bucket of Milk
Steve Block	Netherite Sword	Golden Apple	Right Wristband	Iron Helmet	Music Disc
Mumbo Jumbo	Diamond Pickaxe	Fire Charge	Left Wristband	Leather Cap	Splash Potion
Builder Ben	Redstone Torch	Ender Pearl	Left Wristband	Iron Helmet	Bucket of Milk
Creeper Chris	Enchanted Bow	Fire Charge	Left Wristband	Iron Helmet	Bucket of Milk
Squid Kid	Netherite Sword	Golden Apple	Left Wristband	Iron Helmet	Music Disc
Miner Mike	Netherite Sword	Wooden Shield	Right Wristband	Leather Cap	Music Disc
Stampy Cat	Enchanted Bow	Golden Apple	Right Wristband	Iron Helmet	Splash Potion

CLUE 1

Multiplication facts (1-12)

You check the rows of chest stacks in the warehouse to total up the stolen blocks.

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

T																	T
9	21	5	33	42	81	81	12	42	144	60	3	5	2	144	3	9	
44	12	66	66	8	12	20	3	81	60	5	144	12	63	63	81	5	

$1 \times 9 = \square \rightarrow \text{[T]}$

$12 \times 12 = \square \rightarrow \text{[N]}$

$9 \times 9 = \square \rightarrow \text{[L]}$

$2 \times 10 = \square \rightarrow \text{[G]}$

$1 \times 5 = \square \rightarrow \text{[E]}$

$3 \times 7 = \square \rightarrow \text{[H]}$

$4 \times 11 = \square \rightarrow \text{[C]}$

$1 \times 2 = \square \rightarrow \text{[S]}$

$2 \times 4 = \square \rightarrow \text{[Y]}$

$6 \times 7 = \square \rightarrow \text{[I]}$

$1 \times 3 = \square \rightarrow \text{[O]}$

$11 \times 6 = \square \rightarrow \text{[R]}$

$9 \times 7 = \square \rightarrow \text{[P]}$

$2 \times 6 = \square \rightarrow \text{[A]}$

$3 \times 11 = \square \rightarrow \text{[V]}$

$10 \times 6 = \square \rightarrow \text{[D]}$

Scratch space:

CLUE 2 Rounding

The server radar only displays rounded distances to nearby players.

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

T																	
50	130	1700	900	370	900	500	1700	170	50	700	1700	5000	20	900	5000		
7000	5000	2300	430	1100	2300	50	130	1700	30	1700	4300	50	700	20	110	900	50

Round 51 to the nearest ten → **T**

Round 2,255 to the nearest hundred → **N**

Round 4,255 to the nearest hundred → **F**

Round 368 to the nearest ten → **U**

Round 525 to the nearest hundred → **P**

Round 7,162 to the nearest thousand → **B**

Round 127 to the nearest ten → **H**

Round 428 to the nearest ten → **D**

Round 1,057 to the nearest hundred → **O**

Round 1,680 to the nearest hundred → **E**

Round 4,729 to the nearest thousand → **A**

Round 170 to the nearest ten → **C**

Round 21 to the nearest ten → **R**

Round 914 to the nearest hundred → **S**

Round 30 to the nearest ten → **L**

Round 658 to the nearest hundred → **W**

Round 106 to the nearest ten → **I**

Scratch space:

Addition

You tally all the emeralds collected from the village trading posts.

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

Diagram illustrating the arrangement of numbers in two rows:

- Top Row:** 8376, 4814, 5194, 7897, 4762, 2901, 2901, 5751, 4762, 7009, 3711, 5751, 6281, 6281, 8376, 4954, 9396, 9396, 5194, 6978.
- Bottom Row:** 4542, 2490, 5751, 4542, 7126, 9436, 6743, 5194, 8376, 4954, 7294, 3781, 4762, 2901, 6743.

The number 8376 appears twice, once in each row, and is highlighted with an orange background and an orange letter T.

$$3846 + 4530 = \boxed{} \rightarrow \boxed{\text{T}}$$

$$1050 + 1851 = \boxed{} \rightarrow \boxed{\text{L}}$$

$$2346 + 2416 = \boxed{} \rightarrow \boxed{}$$

$1519 + 971 = \boxed{} \rightarrow \boxed{\text{Y}}$

$$3352 + 2929 = \boxed{} \rightarrow \boxed{\text{S}}$$

$4179 + 2799 = \boxed{} \rightarrow \boxed{\text{D}}$

$$1157 + 2624 = \boxed{} \rightarrow \boxed{\text{M}}$$

$$5062 + 2232 = \boxed{} \rightarrow \boxed{\text{F}}$$

$$3115 + 2636 = \boxed{} \rightarrow \boxed{\mathbf{A}}$$

$$2452 + 2362 = \boxed{} \rightarrow \boxed{\text{H}}$$

$$2280 + 2262 = \boxed{} \rightarrow \boxed{\mathbf{B}}$$

$$2849 + 4160 = \boxed{} \rightarrow \boxed{\text{N}}$$

$$3080 + 3663 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$4167 + 3730 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$$4361 + 5075 = \boxed{} \rightarrow \boxed{\text{C}}$$

$$1793 + 3161 = \boxed{} \rightarrow \boxed{0}$$

$1640 + 3554 = \boxed{} \rightarrow \boxed{\text{E}}$

$$1530 + 2181 = \boxed{} \rightarrow \boxed{\text{W}}$$

$$3566 + 5830 = \boxed{} \rightarrow \boxed{\text{P}}$$

$4139 + 2987 = \boxed{} \rightarrow \boxed{\text{U}}$

Scratch space:

CLUE 4

Subtraction

You calculate how many obsidian blocks remain after the break in.

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

W												W											
8210	6725	4731	3810	5144	1921	1921	5144	1921	1921	1177	8210	3114	6725	4731	1921	5440	8754	1177					

5140	5144	1177	4731	1624	5144	2168	3374	1177	3337		

$9959 - 1749 = \square \rightarrow \boxed{\text{W}}$

$9091 - 2366 = \square \rightarrow \boxed{\text{I}}$

$5662 - 931 = \square \rightarrow \boxed{\text{T}}$

$4155 - 1041 = \square \rightarrow \boxed{\text{B}}$

$7997 - 4660 = \square \rightarrow \boxed{\text{P}}$

$8968 - 3824 = \square \rightarrow \boxed{\text{E}}$

$9483 - 4043 = \square \rightarrow \boxed{\text{O}}$

$5467 - 3546 = \square \rightarrow \boxed{\text{S}}$

$1592 - 415 = \square \rightarrow \boxed{\text{A}}$

$5991 - 851 = \square \rightarrow \boxed{\text{L}}$

$5148 - 1338 = \square \rightarrow \boxed{\text{N}}$

$4739 - 2571 = \square \rightarrow \boxed{\text{R}}$

$4601 - 1227 = \square \rightarrow \boxed{\text{C}}$

$3019 - 1395 = \square \rightarrow \boxed{\text{H}}$

$8946 - 192 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

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

You share the remaining cooked porkchops equally among the guard wolves.

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:

$15 \div 5 = \boxed{}$

$60 \div 12 = \boxed{}$

$56 \div 8 = \boxed{}$

$88 \div 8 = \boxed{}$

$48 \div 4 = \boxed{}$

$32 \div 4 = \boxed{}$

$90 \div 9 = \boxed{}$

$9 \div 9 = \boxed{}$

$4 \div 2 = \boxed{}$

$72 \div 12 = \boxed{}$

$99 \div 11 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain placed a redstone torch, then threw an ender pearl.
2. The villain fired an enchanted bow, then ate a golden apple.
3. The villain brandished a netherite sword, then raised a wooden shield.
4. The villain swung a diamond pickaxe, then hurled a fire charge.
5. The villain placed a redstone torch, then raised a wooden shield.
6. The villain swung a diamond pickaxe, then raised a wooden shield.
7. The villain brandished a netherite sword, then hurled a fire charge.
8. The villain brandished a netherite sword, then threw an ender pearl.
9. The villain swung a diamond pickaxe, then ate a golden apple.
10. The villain fired an enchanted bow, then threw an ender pearl.
11. The villain swung a diamond pickaxe, then threw an ender pearl.
12. The villain placed a redstone torch, then ate a golden apple.

Answer Key

The Great Beacon Heist

Culprit: Captain Spark

Diamond Pickaxe · Fire Charge · Left Wristband · Leather Cap · Bucket of Milk

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 9 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT CARRY A GOLDEN APPLE"

$1 \times 9 = 9$ (T) · $12 \times 12 = 144$ (N) · $9 \times 9 = 81$ (L) · $2 \times 10 = 20$ (G) · $1 \times 5 = 5$ (E) · $3 \times 7 = 21$ (H) · $4 \times 11 = 44$ (C) · $1 \times 2 = 2$ (S) · $2 \times 4 = 8$ (Y) · $6 \times 7 = 42$ (I) · $1 \times 3 = 3$ (O) · $11 \times 6 = 66$ (R) · $9 \times 7 = 63$ (P) · $2 \times 6 = 12$ (A) · $3 \times 11 = 33$ (V) · $10 \times 6 = 60$ (D)

Clue 2 (Rounding): "THE SUSPECT WEARS A BAND ON THE LEFT WRIST"

Round 51 to the nearest ten = 50 (T) · Round 2,255 to the nearest hundred = 2300 (N) · Round 4,255 to the nearest hundred = 4300 (F) · Round 368 to the nearest ten = 370 (U) · Round 525 to the nearest hundred = 500 (P) · Round 7,162 to the nearest thousand = 7000 (B) · Round 127 to the nearest ten = 130 (H) · Round 428 to the nearest ten = 430 (D) · Round 1,057 to the nearest hundred = 1100 (O) · Round 1,680 to the nearest hundred = 1700 (E) · Round 4,729 to the nearest thousand = 5000 (A) · Round 170 to the nearest ten = 170 (C) · Round 21 to the nearest ten = 20 (R) · Round 914 to the nearest hundred = 900 (S) · Round 30 to the nearest ten = 30 (L) · Round 658 to the nearest hundred = 700 (W) · Round 106 to the nearest ten = 110 (I)

Clue 3 (Addition): "THE VILLAIN WAS STOPPED BY A BUCKET OF MILK"

$3846 + 4530 = 8376$ (T) · $1050 + 1851 = 2901$ (L) · $2346 + 2416 = 4762$ (I) · $1519 + 971 = 2490$ (Y) · $3352 + 2929 = 6281$ (S) · $4179 + 2799 = 6978$ (D) · $1157 + 2624 = 3781$ (M) · $5062 + 2232 = 7294$ (F) · $3115 + 2636 = 5751$ (A) · $2452 + 2362 = 4814$ (H) · $2280 + 2262 = 4542$ (B) · $2849 + 4160 = 7009$ (N) · $3080 + 3663 = 6743$ (K) · $4167 + 3730 = 7897$ (V) · $4361 + 5075 = 9436$ (C) · $1793 + 3161 = 4954$ (O) · $1640 + 3554 = 5194$ (E) · $1530 + 2181 = 3711$ (W) · $3566 + 5830 = 9396$ (P) · $4139 + 2987 = 7126$ (U)

Clue 4 (Subtraction): "WITNESSES SAW BITS OF A LEATHER CAP"

$9959 - 1749 = 8210$ (W) · $9091 - 2366 = 6725$ (I) · $5662 - 931 = 4731$ (T) · $4155 - 1041 = 3114$ (B) · $7997 - 4660 = 3337$ (P) · $8968 - 3824 = 5144$ (E) · $9483 - 4043 = 5440$ (O) · $5467 - 3546 = 1921$ (S) · $1592 - 415 = 1177$ (A) · $5991 - 851 = 5140$ (L) · $5148 - 1338 = 3810$ (N) · $4739 - 2571 = 2168$ (R) · $4601 - 1227 = 3374$ (C) · $3019 - 1395 = 1624$ (H) · $8946 - 192 = 8754$ (F)

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

$15 \div 5 = 3$ · $60 \div 12 = 5$ · $56 \div 8 = 7$ · $88 \div 8 = 11$ · $48 \div 4 = 12$ · $32 \div 4 = 8$ · $90 \div 9 = 10$ · $9 \div 9 = 1$ · $4 \div 2 = 2$ · $72 \div 12 = 6$ · $99 \div 11 = 9$