



The Mystery of the Missing Beacon

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

Detective: _____ Date: _____

Someone broke into the crafting temple. They stole the shiny beacon! We must find the bad griever.

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 griever 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	ESCAPE BLOCK	SWING HAND	HAIR COLOR	BEST DEFENSE
Martyn	golden shovel	slime blocks	left handed swings	blonde hair	splash potions
Cleo	diamond pickaxe	ender pearls	left handed swings	brown hair	splash potions
Lizzie	golden shovel	slime blocks	right handed swings	blonde hair	tamed wolves
Jimmy	netherite sword	obsidian blocks	right handed swings	black hair	tamed wolves
Rendog	iron axe	ender pearls	left handed swings	blonde hair	tamed wolves
Wels	diamond pickaxe	slime blocks	right handed swings	blonde hair	tamed wolves
Tango	netherite sword	redstone dust	right handed swings	blonde hair	tamed wolves
Pearl	enchanted bow	water buckets	right handed swings	blonde hair	tamed wolves
DanTDM	golden shovel	obsidian blocks	left handed swings	blonde hair	snow golem snowballs
Grian	diamond pickaxe	water buckets	left handed swings	brown hair	tamed wolves
Alex	enchanted bow	slime blocks	right handed swings	black hair	splash potions
Joel	netherite sword	obsidian blocks	right handed swings	brown hair	tamed wolves
Steve	iron axe	redstone dust	right handed swings	brown hair	splash potions
Stampy	golden shovel	water buckets	left handed swings	blonde hair	snow golem snowballs
Gemini	golden shovel	redstone dust	right handed swings	black hair	snow golem snowballs
Iskall	diamond pickaxe	ender pearls	right handed swings	blonde hair	snow golem snowballs
False	golden shovel	ender pearls	right handed swings	black hair	tamed wolves
Etho	enchanted bow	slime blocks	right handed swings	blonde hair	tamed wolves
Impulse	netherite sword	redstone dust	left handed swings	brown hair	snow golem snowballs
Mumbo	iron axe	slime blocks	left handed swings	blonde hair	tamed wolves
Beef	netherite sword	redstone dust	right handed swings	brown hair	tamed wolves

CLUE 1 Addition

We need to count our porkchops. We add the old food to the new food. Let us find out how many we have.

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

T																			
250	582	315	226	919	781	315	806	315	919	322	781	322	247	450	250	225	502	315	

919	315	322	502	250	450	247	315	322	225	502	250	

$165 + 85 = \square \rightarrow \text{T}$	$132 + 93 = \square \rightarrow \text{U}$	$124 + 198 = \square \rightarrow \text{D}$
$615 + 304 = \square \rightarrow \text{R}$	$210 + 240 = \square \rightarrow \text{O}$	$408 + 174 = \square \rightarrow \text{H}$
$515 + 266 = \square \rightarrow \text{I}$	$118 + 108 = \square \rightarrow \text{G}$	$104 + 143 = \square \rightarrow \text{N}$
$113 + 202 = \square \rightarrow \text{E}$	$546 + 260 = \square \rightarrow \text{F}$	$290 + 212 = \square \rightarrow \text{S}$

Scratch space:

CLUE 2

Subtraction

A creeper blew up some of our torches. We lost some. Let us subtract to find how many torches are left.

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

T																T		
771	221	642	449	188	515	793	169	729	693	810	679	449	795	793	771	221	642	
											T							
188	693	129	129	693	810	642	810	515	169	221	771	221	693	793	331	642	331	

$818 - 47 = \square \rightarrow \text{[T]}$

$643 - 194 = \square \rightarrow \text{[S]}$

$334 - 113 = \square \rightarrow \text{[H]}$

$932 - 122 = \square \rightarrow \text{[R]}$

$588 - 400 = \square \rightarrow \text{[W]}$

$922 - 127 = \square \rightarrow \text{[O]}$

$461 - 332 = \square \rightarrow \text{[L]}$

$756 - 63 = \square \rightarrow \text{[A]}$

$949 - 270 = \square \rightarrow \text{[K]}$

$434 - 265 = \square \rightarrow \text{[G]}$

$902 - 260 = \square \rightarrow \text{[E]}$

$928 - 135 = \square \rightarrow \text{[N]}$

$720 - 205 = \square \rightarrow \text{[I]}$

$756 - 27 = \square \rightarrow \text{[M]}$

$336 - 5 = \square \rightarrow \text{[D]}$

Scratch space:

CLUE 3

Multiplication facts (1-12)

We are planting wheat. We have three rows of seeds. Let us multiply to find the total.

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

T																			
84	32	8	6	70	49	9	81	144	6	44	49	90	81	81	121	32	2	24	

	T	T																	
32	84	84	25	90	44	121	32	70	132	2	90	6	80	6	2				

$7 \times 12 = \square \rightarrow \boxed{\text{T}}$

$9 \times 9 = \square \rightarrow \boxed{\text{L}}$

$5 \times 5 = \square \rightarrow \boxed{\text{H}}$

$1 \times 6 = \square \rightarrow \boxed{\text{E}}$

$1 \times 8 = \square \rightarrow \boxed{\text{M}}$

$12 \times 12 = \square \rightarrow \boxed{\text{V}}$

$9 \times 10 = \square \rightarrow \boxed{\text{I}}$

$10 \times 7 = \square \rightarrow \boxed{\text{D}}$

$11 \times 11 = \square \rightarrow \boxed{\text{B}}$

$12 \times 11 = \square \rightarrow \boxed{\text{G}}$

$2 \times 1 = \square \rightarrow \boxed{\text{R}}$

$4 \times 11 = \square \rightarrow \boxed{\text{S}}$

$7 \times 7 = \square \rightarrow \boxed{\text{W}}$

$9 \times 1 = \square \rightarrow \boxed{\text{O}}$

$4 \times 6 = \square \rightarrow \boxed{\text{K}}$

$8 \times 4 = \square \rightarrow \boxed{\text{A}}$

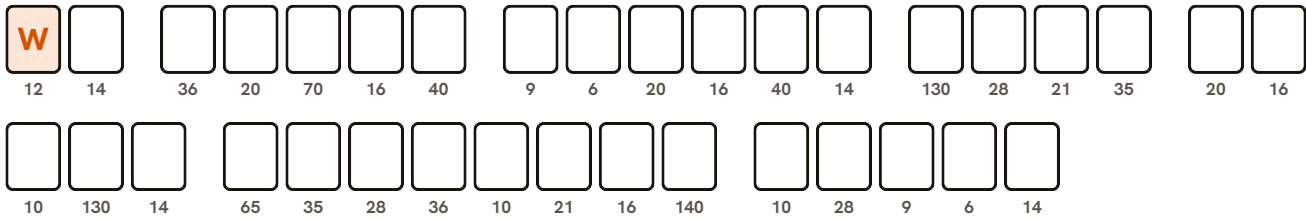
$8 \times 10 = \square \rightarrow \boxed{\text{F}}$

Scratch space:

CLUE 4 Skip counting

Look at the path. The blocks go up by twos. Let us skip count to find the missing number.

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



Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 → **W**

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 → **B**

Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 → **D**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 → **R**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 → **E**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 → **A**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 → **I**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 → **N**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 → **H**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 → **U**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 → **T**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 → **O**

Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 → **L**

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

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

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

Scratch space:

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

We found a chest of diamonds. We must share them equally. Let us divide them up.

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:

$20 \div 10 = \boxed{}$

$28 \div 7 = \boxed{}$

$36 \div 12 = \boxed{}$

$60 \div 10 = \boxed{}$

$10 \div 10 = \boxed{}$

$30 \div 6 = \boxed{}$

$84 \div 12 = \boxed{}$

$80 \div 8 = \boxed{}$

$144 \div 12 = \boxed{}$

$132 \div 12 = \boxed{}$

$24 \div 3 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain blows up the obsidian wall, then blocks the chase with heavy obsidian blocks.
2. The villain blows up the obsidian wall, then jumps away on bouncy green slime blocks.
3. The villain sneaks past the iron golem, then jumps away on bouncy green slime blocks.
4. The villain blows up the obsidian wall, then slides down a hill using water buckets.
5. The villain digs through the stone roof, then escapes by lighting redstone dust trails.
6. The villain sneaks past the iron golem, then slides down a hill using water buckets.
7. The villain smashes the wooden door, then slides down a hill using water buckets.
8. The villain digs through the stone roof, then teleports far away with ender pearls.
9. The villain smashes the wooden door, then jumps away on bouncy green slime blocks.
10. The villain digs through the stone roof, then slides down a hill using water buckets.
11. The villain blows up the obsidian wall, then escapes by lighting redstone dust trails.
12. The villain smashes the wooden door, then teleports far away with ender pearls.

Answer Key

The Mystery of the Missing Beacon

Culprit: Wels

diamond pickaxe · slime blocks · right handed swings · blonde hair · tamed wolves

Trail: Start 21 → Clue 1 16 → Clue 2 9 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Addition): "THE GRIEFER DID NOT USE REDSTONE DUST"

$165 + 85 = 250$ (T) · $132 + 93 = 225$ (U) · $124 + 198 = 322$ (D) · $615 + 304 = 919$ (R) · $210 + 240 = 450$ (O) · $408 + 174 = 582$ (H) · $515 + 266 = 781$ (I) · $118 + 108 = 226$ (G) · $104 + 143 = 247$ (N) · $113 + 202 = 315$ (E) · $546 + 260 = 806$ (F) · $290 + 212 = 502$ (S)

Clue 2 (Subtraction): "THE SWING MARKS ON THE WALL ARE RIGHT HANDED"

$818 - 47 = 771$ (T) · $643 - 194 = 449$ (S) · $334 - 113 = 221$ (H) · $932 - 122 = 810$ (R) · $588 - 400 = 188$ (W) · $922 - 127 = 795$ (O) · $461 - 332 = 129$ (L) · $756 - 63 = 693$ (A) · $949 - 270 = 679$ (K) · $434 - 265 = 169$ (G) · $902 - 260 = 642$ (E) · $928 - 135 = 793$ (N) · $720 - 205 = 515$ (I) · $756 - 27 = 729$ (M) · $336 - 5 = 331$ (D)

Clue 3 (Multiplication facts (1-12)): "TAMED WOLVES WILL BARK AT THIS BAD GRIEFER"

$7 \times 12 = 84$ (T) · $9 \times 9 = 81$ (L) · $5 \times 5 = 25$ (H) · $1 \times 6 = 6$ (E) · $1 \times 8 = 8$ (M) · $12 \times 12 = 144$ (V) · $9 \times 10 = 90$ (I) · $10 \times 7 = 70$ (D) · $11 \times 11 = 121$ (B) · $12 \times 11 = 132$ (G) · $2 \times 1 = 2$ (R) · $4 \times 11 = 44$ (S) · $7 \times 7 = 49$ (W) · $9 \times 1 = 9$ (O) · $4 \times 6 = 24$ (K) · $8 \times 4 = 32$ (A) · $8 \times 10 = 80$ (F)

Clue 4 (Skip counting): "WE FOUND BLONDE HAIR ON THE CRAFTING TABLE"

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, __, 14, 16 = 12 (W) · Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, __, 50, 60 = 40 (D) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, __, 40, 45 = 35 (R) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (E) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (A) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (I) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, __, 18, 20 = 16 (N) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, __, 140, 150 = 130 (H) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, __, 80, 90 = 70 (U) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, __, 12, 14 = 10 (T) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, __, 22, 24 = 20 (O) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (L) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (G) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, __, 70, 75 = 65 (C) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, __, 39, 42 = 36 (F)

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

$20 \div 10 = 2$ · $28 \div 7 = 4$ · $36 \div 12 = 3$ · $60 \div 10 = 6$ · $10 \div 10 = 1$ · $30 \div 6 = 5$ · $84 \div 12 = 7$ · $80 \div 8 = 10$ · $144 \div 12 = 12$ · $132 \div 12 = 11$ · $24 \div 3 = 8$