



The Mystery of the Missing Golden Apple

Grade 2 math · Place value, Addition, Subtraction, Skip counting, Missing addends · Reading level grades 1-2

Detective: _____ Date: _____

Someone broke into the main village server! They stole the legendary Golden Apple from the Head Builder's chest. We must search the blocky lands and find the sneaky player 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 Phantom is _____

Possible suspects

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

NAME	FAVORITE TOOL	SPAWN EGG PET	SHIELD HAND	HAIR COLOR	FEAR
Preston	diamond pickaxe	orange fox	right hand shield	bright blue hair	sour milk buckets
Etho	enchanted bow	red parrot	right hand shield	blonde blocky hair	deep water blocks
SSundee	iron axe	orange fox	right hand shield	bright blue hair	deep water blocks
Tubbo	netherite sword	baby axolotl	left hand shield	bright blue hair	spooky creeper hiss
Slogo	diamond pickaxe	baby axolotl	right hand shield	blonde blocky hair	spooky creeper hiss
Sapnap	netherite sword	spotted ocelot	left hand shield	brown blocky hair	spooky creeper hiss
Skeppy	golden shovel	orange fox	left hand shield	blonde blocky hair	deep water blocks
Jelly	netherite sword	red parrot	left hand shield	blonde blocky hair	deep water blocks
TommyInnit	enchanted bow	red parrot	right hand shield	bright blue hair	deep water blocks
Codi	iron axe	baby axolotl	right hand shield	blonde blocky hair	sour milk buckets
Alex	golden shovel	orange fox	right hand shield	bright blue hair	spooky creeper hiss
Stampy	golden shovel	baby axolotl	left hand shield	bright blue hair	deep water blocks
VintageBeef	golden shovel	baby axolotl	left hand shield	brown blocky hair	deep water blocks
Dream	iron axe	red parrot	right hand shield	blonde blocky hair	deep water blocks
George	diamond pickaxe	red parrot	left hand shield	blonde blocky hair	deep water blocks
Jerome	iron axe	baby axolotl	left hand shield	blonde blocky hair	deep water blocks
CaptainSparklez	diamond pickaxe	red parrot	left hand shield	blonde blocky hair	sour milk buckets
Mumbo	enchanted bow	tame wolf	left hand shield	blonde blocky hair	deep water blocks
Grian	netherite sword	baby axolotl	left hand shield	bright blue hair	sour milk buckets
LDShadowLady	golden shovel	tame wolf	left hand shield	bright blue hair	sour milk buckets
DanTDM	diamond pickaxe	baby axolotl	right hand shield	bright blue hair	spooky creeper hiss

CLUE 1 Place value

To unlock the first clue, we must read the coordinates on the chest. Look at the tens place and the ones place to find the right chest.

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

T			T											T				
46	92	27	46	92	42	27	84	55	78	27	74	29	78	46	92	34	86	27
34	29	78	14	34	29	93	27	84	78	47								

What number has 4 tens and 6 ones? → **T**

What number has 4 tens and 7 ones? → **X**

What number has 1 ten and 4 ones? → **R**

What number has 9 tens and 2 ones? → **H**

What number has 8 tens and 4 ones? → **F**

What number has 7 tens and 8 ones? → **O**

What number has 7 tens and 4 ones? → **S**

What number has 4 tens and 2 ones? → **I**

What number has 2 tens and 9 ones? → **N**

What number has 8 tens and 6 ones? → **V**

What number has 5 tens and 5 ones? → **D**

What number has 9 tens and 3 ones? → **G**

What number has 3 tens and 4 ones? → **A**

What number has 2 tens and 7 ones? → **E**

Scratch space:

CLUE 2 Addition

We found a chest of iron ingots. Let us add up all the ingots in the top row and the bottom row to see how many we have.

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

T			T															
50	66	61	50	66	32	61	44	51	89	49	59	61	76	49				
								T						T				
55	66	32	61	89	76	31	40	50	66	61	89	61	44	50	66	49	40	76

$34 + 16 = \square \rightarrow$ T	$46 + 43 = \square \rightarrow$ L	$21 + 45 = \square \rightarrow$ H
$27 + 34 = \square \rightarrow$ E	$41 + 18 = \square \rightarrow$ C	$17 + 23 = \square \rightarrow$ N
$31 + 45 = \square \rightarrow$ D	$17 + 15 = \square \rightarrow$ I	$12 + 19 = \square \rightarrow$ O
$17 + 27 = \square \rightarrow$ F	$15 + 36 = \square \rightarrow$ P	$19 + 36 = \square \rightarrow$ S
$16 + 33 = \square \rightarrow$ A		

Scratch space:

CLUE 3

Subtraction

A sneaky creeper blew up near our bridge! We had a stack of stone blocks, but some were lost. Subtract the ruined blocks to count what is left.

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

T																		T
61	86	41	12	81	80	80	65	81	46	43	42	50	80	52	46	42	61	
						T								T				
66	50	24	87	81	46	61	42	52	41	41	87	43	65	61	41	21		

$83 - 22 = \square \rightarrow \boxed{\text{T}}$

$97 - 10 = \square \rightarrow \boxed{\text{P}}$

$105 - 40 = \square \rightarrow \boxed{\text{A}}$

$106 - 25 = \square \rightarrow \boxed{\text{I}}$

$27 - 3 = \square \rightarrow \boxed{\text{M}}$

$93 - 7 = \square \rightarrow \boxed{\text{H}}$

$80 - 30 = \square \rightarrow \boxed{\text{U}}$

$66 - 23 = \square \rightarrow \boxed{\text{W}}$

$50 - 4 = \square \rightarrow \boxed{\text{N}}$

$80 - 39 = \square \rightarrow \boxed{\text{E}}$

$44 - 2 = \square \rightarrow \boxed{\text{O}}$

$20 - 8 = \square \rightarrow \boxed{\text{V}}$

$30 - 9 = \square \rightarrow \boxed{\text{R}}$

$105 - 25 = \square \rightarrow \boxed{\text{L}}$

$54 - 2 = \square \rightarrow \boxed{\text{D}}$

$102 - 36 = \square \rightarrow \boxed{\text{J}}$

Scratch space:

CLUE 4

The dark mine is scary. Let us count the torches along the tunnel wall by twos to light up the path and find the next clue.

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

The image shows a 2x5 grid of boxes. Each box contains a number or a letter 'S'. The numbers are arranged in two rows of five boxes each. The 'S' is located in the first box of the first row and the last box of the second row.

S				
27	15	35	45	

100	12	15	60	10

130	65	110	28	

		S		
50	65	27		

12	45	26	120	

15	60	120	130	45

50	15	15	10	

140	12	65	60	18

				S
				27

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

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

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 → **W**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, __, 28, 30 → **F**

Skip-count by 5s. Fill the blank: 5, 10, __, 20, 25 →

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

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

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

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, , 130, 140 → **T**

Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, __, 65, 70 → **N**

Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, __, 20, 22 → **K**

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

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

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

Scratch space:

CLUE 5**Missing addends - the last clue**

We need ten redstone dust to fix the secret door, but we only have six. Let us find out how many more we need to craft the key.

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:

$7 + \underline{\quad} = 18$

$10 + \underline{\quad} = 12$

$4 + \underline{\quad} = 11$

$2 + \underline{\quad} = 14$

$2 + \underline{\quad} = 5$

$6 + \underline{\quad} = 12$

$5 + \underline{\quad} = 15$

$6 + \underline{\quad} = 11$

$1 + \underline{\quad} = 9$

$3 + \underline{\quad} = 7$

$10 + \underline{\quad} = 19$

Step 2 - cross out the sentence with each answer:

1. The villain breaks a cobblestone wall, then tames a wild skeleton horse.
2. The villain bridges over a lava lake, then bakes a sweet pumpkin pie.
3. The villain builds a tall dirt tower, then fishes for a treasure book.
4. The villain sneaks past a sleeping iron golem, then fishes for a treasure book.
5. The villain sneaks past a sleeping iron golem, then brews a potion of swiftness.
6. The villain builds a tall dirt tower, then bakes a sweet pumpkin pie.
7. The villain sneaks past a sleeping iron golem, then crafts a glowing beacon.
8. The villain builds a tall dirt tower, then tames a wild skeleton horse.
9. The villain breaks a cobblestone wall, then bakes a sweet pumpkin pie.
10. The villain bridges over a lava lake, then crafts a glowing beacon.
11. The villain digs a deep mine shaft, then tames a wild skeleton horse.
12. The villain digs a deep mine shaft, then bakes a sweet pumpkin pie.

Answer Key

The Mystery of the Missing Golden Apple

Culprit: George

diamond pickaxe · red parrot · left hand shield · blonde blocky hair · deep water blocks

Trail: Start 21 → Clue 1 17 → Clue 2 11 → Clue 3 6 → Clue 4 4 → Clue 5 1

Clue 1 (Place value): "THE THIEF DOES NOT HAVE AN ORANGE FOX"

What number has 4 tens and 6 ones? = 46 (T) · What number has 4 tens and 7 ones? = 47 (X) · What number has 1 ten and 4 ones? = 14 (R) · What number has 9 tens and 2 ones? = 92 (H) · What number has 8 tens and 4 ones? = 84 (F) · What number has 7 tens and 8 ones? = 78 (O) · What number has 7 tens and 4 ones? = 74 (S) · What number has 4 tens and 2 ones? = 42 (I) · What number has 2 tens and 9 ones? = 29 (N) · What number has 8 tens and 6 ones? = 86 (V) · What number has 5 tens and 5 ones? = 55 (D) · What number has 9 tens and 3 ones? = 93 (G) · What number has 3 tens and 4 ones? = 34 (A) · What number has 2 tens and 7 ones? = 27 (E)

Clue 2 (Addition): "THE THIEF PLACED A SHIELD ON THE LEFT HAND"

$34 + 16 = 50$ (T) · $46 + 43 = 89$ (L) · $21 + 45 = 66$ (H) · $27 + 34 = 61$ (E) · $41 + 18 = 59$ (C) · $17 + 23 = 40$ (N) · $31 + 45 = 76$ (D) · $17 + 15 = 32$ (I) · $12 + 19 = 31$ (O) · $17 + 27 = 44$ (F) · $15 + 36 = 51$ (P) · $19 + 36 = 55$ (S) · $16 + 33 = 49$ (A)

Clue 3 (Subtraction): "THE VILLAIN WOULD NOT JUMP INTO DEEP WATER"

$83 - 22 = 61$ (T) · $97 - 10 = 87$ (P) · $105 - 40 = 65$ (A) · $106 - 25 = 81$ (I) · $27 - 3 = 24$ (M) · $93 - 7 = 86$ (H) · $80 - 30 = 50$ (U) · $66 - 23 = 43$ (W) · $50 - 4 = 46$ (N) · $80 - 39 = 41$ (E) · $44 - 2 = 42$ (O) · $20 - 8 = 12$ (V) · $30 - 9 = 21$ (R) · $105 - 25 = 80$ (L) · $54 - 2 = 52$ (D) · $102 - 36 = 66$ (J)

Clue 4 (Skip counting): "SOME BLONDE HAIR WAS LEFT ON THE WOOD PLANKS"

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

Clue 5 (Missing addends): surviving statement is box 1 → George

$7 + \underline{\quad} = 18 = 11$ · $10 + \underline{\quad} = 12 = 2$ · $4 + \underline{\quad} = 11 = 7$ · $2 + \underline{\quad} = 14 = 12$ · $2 + \underline{\quad} = 5 = 3$ · $6 + \underline{\quad} = 12 = 6$ · $5 + \underline{\quad} = 15 = 10$ · $6 + \underline{\quad} = 11 = 5$ · $1 + \underline{\quad} = 9 = 8$ · $3 + \underline{\quad} = 7 = 4$ · $10 + \underline{\quad} = 19 = 9$