



The Mystery of the Lost Temple Key

Grade 2 math · Multiplication, Word problems, Skip counting, Place value, Missing addends · Reading level grades 3-4

Detective: _____ **Date:** _____

The Adventure Club just arrived at the ancient temple, but someone has swiped the Golden Sun Key! Without it, the temple doors will stay locked forever. The muddy footprints are fresh, and the culprit left behind a trail of clues. Grab your spygear and help us crack the case!

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 Rival Explorer is _____

Possible suspects

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

NAME	SPECIALIST GEAR	ANIMAL PARTNER	WRITING STYLE	HAIR COLOR	BIGGEST FEAR
Diego	Grappling Hook	Pet Monkey	Left-handed notepad	Black Curly Hair	Scared of cold water
Zelda	Grappling Hook	Pet Parrot	Right-handed holster	Black Curly Hair	Scared of loud noises
Nellie	Night Binoculars	Pet Iguana	Left-handed notepad	Brown Spiky Hair	Scared of loud noises
Steve	Pocket Compass	Pet Falcon	Left-handed notepad	Blonde Ponytail	Scared of bright lights
Amelia	Night Binoculars	Pet Falcon	Right-handed holster	Brown Spiky Hair	Scared of bright lights
Indiana	Pocket Compass	Pet Monkey	Right-handed holster	Blonde Ponytail	Scared of cold water
Wendy	Grappling Hook	Pet Iguana	Left-handed notepad	Blonde Ponytail	Scared of loud noises
Lara	Night Binoculars	Pet Falcon	Right-handed holster	Blonde Ponytail	Scared of bright lights
Annie	Grappling Hook	Pet Ferret	Left-handed notepad	Blonde Ponytail	Scared of bright lights
Hudson	Sturdy Machete	Pet Ferret	Right-handed holster	Blonde Ponytail	Scared of cold water
Arthur	Highbeam Flashlight	Pet Monkey	Right-handed holster	Blonde Ponytail	Scared of loud noises
Cleo	Grappling Hook	Pet Monkey	Left-handed notepad	Blonde Ponytail	Scared of bright lights
Wyatt	Grappling Hook	Pet Falcon	Left-handed notepad	Blonde Ponytail	Scared of bright lights
Freya	Night Binoculars	Pet Iguana	Right-handed holster	Black Curly Hair	Scared of loud noises
Leo	Sturdy Machete	Pet Ferret	Left-handed notepad	Brown Spiky Hair	Scared of cold water
Bessie	Pocket Compass	Pet Iguana	Right-handed holster	Blonde Ponytail	Scared of bright lights
Nancy	Sturdy Machete	Pet Monkey	Right-handed holster	Black Curly Hair	Scared of bright lights
Alex	Pocket Compass	Pet Monkey	Left-handed notepad	Blonde Ponytail	Scared of loud noises
Marco	Grappling Hook	Pet Parrot	Left-handed notepad	Blonde Ponytail	Scared of bright lights
Toby	Night Binoculars	Pet Parrot	Left-handed notepad	Black Curly Hair	Scared of bright lights
Jacques	Sturdy Machete	Pet Iguana	Right-handed holster	Black Curly Hair	Scared of bright lights

Multiplication facts (1-12)

We found the supply crates stacked in neat rows. We can multiply the rows to find how many we have left.

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

27	55	108	60	11	108	110	48	14	27	55	121	108	64	70	30	108	60
11	30	27	55	110	72	108	110	44	108	27	64	108	96	96	108	27	

$3 \times 9 = \boxed{} \rightarrow \boxed{\text{T}}$

$11 \times 4 = \boxed{} \rightarrow \boxed{\text{P}}$

$12 \times 8 = \boxed{} \rightarrow \boxed{\text{R}}$

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

$$1 \times 11 = \boxed{} \rightarrow \boxed{\text{N}}$$

$11 \times 5 = \boxed{} \rightarrow \boxed{\text{H}}$

$$6 \times 10 = \boxed{} \rightarrow \boxed{\text{S}}$$

$$8 \times 6 = \boxed{} \rightarrow \boxed{\text{K}}$$

$$10 \times 3 = \boxed{} \rightarrow \boxed{0}$$

$10 \times 11 = \boxed{} \rightarrow \boxed{\text{A}}$

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

$$11 \times 11 = \boxed{} \rightarrow \boxed{1}$$

$$8 \times 9 = \boxed{} \rightarrow \boxed{\mathbf{V}}$$

$2 \times 7 = \square \rightarrow \boxed{\mathbf{Y}}$

$9 \times 12 = \boxed{} \rightarrow \boxed{\text{E}}$

Scratch space:

CLUE 2

Word problems

Explorer Jack needs to pack his backpack. We must solve these word problems to figure out what gear is missing.

Solve each problem, then write its letter in the boxes to fill in the missing word.

A witness saw the villain was

L

D

D

O

P

D

32 14 10 34 23 39 18 14 18 34 14 39

Explorer Jack lined up 8 rows of 4 flashlights. How many flashlights in all?

Answer: → L

Explorer Jack found 14 canteens yesterday and 25 more today. How many canteens in all?

Answer: → A

Explorer Jack found 10 canteens yesterday and 4 more today. How many canteens in all?

Answer: → E

There were 13 ropes. 3 were used up. How many ropes are left?

Answer: → F

Explorer Jack found 17 canteens yesterday and 17 more today. How many canteens in all?

Answer: → T

Explorer Jack lined up 6 rows of 3 gold coins. How many gold coins in all?

Answer: → N

Explorer Jack found 14 gold coins yesterday and 9 more today. How many gold coins in all?

Answer: → H

Scratch space:

CLUE 3 Skip counting

To cross the dangerous swamp, we must step on every fifth stone. Skip count to find the safe path!

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

T														
9	14	42	6	39	21	24	21	12	21	6	26	39	50	60
					T								T	
33	39	45	15	14	9	26	140	21	28	14	140	45	15	14

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 → **G**

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 → **N**

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 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 → **B**

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 → **E**

Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 → **M**

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

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

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

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

Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 → **W**

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

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

Scratch space:

CLUE 4
Place value

The ancient stone chest has a three-digit combination lock. We need to check the hundreds, tens, and ones.

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

B																		
56	16	85	68	48	64	77	72	66	28	32	15	28	72	68	48	32	85	68

15	77	64	28	85	38	64	

What number has 5 tens and 6 ones?

→

B

What number has 7 tens and 2 ones?

→

A

What number has 4 tens and 8 ones?

→

D

What number has 3 tens and 2 ones?

→

S

What number has 1 ten and 6 ones?

→

L

What number has 6 tens and 6 ones?

→

I

What number has 6 tens and 4 ones?

→

E

What number has 7 tens and 7 ones?

→

H

What number has 1 ten and 5 ones?

→

T

What number has 2 tens and 8 ones?

→

R

What number has 3 tens and 8 ones?

→

P

What number has 6 tens and 8 ones?

→

N

What number has 8 tens and 5 ones?

→

O

Scratch space:

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

The weight scale on the altar is off balance. We need to find the missing weight to unlock 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:

$1 + \underline{\quad} = 6$

$5 + \underline{\quad} = 16$

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

$7 + \underline{\quad} = 8$

$5 + \underline{\quad} = 12$

$5 + \underline{\quad} = 9$

$6 + \underline{\quad} = 14$

$7 + \underline{\quad} = 9$

$5 + \underline{\quad} = 14$

$4 + \underline{\quad} = 7$

$6 + \underline{\quad} = 18$

Step 2 - cross out the sentence with each answer:

1. The villain swings on a wild vine, then grabs the silver skull.
2. The villain climbs the high ruins, then takes the jade beetle.
3. The villain paddles the fast river, then steals the ruby monkey.
4. The villain decodes the ancient map, then swipes the golden compass.
5. The villain climbs the high ruins, then swipes the golden compass.
6. The villain climbs the high ruins, then steals the ruby monkey.
7. The villain decodes the ancient map, then grabs the silver skull.
8. The villain paddles the fast river, then snatches the emerald crown.
9. The villain opens the secret vault, then takes the jade beetle.
10. The villain climbs the high ruins, then snatches the emerald crown.
11. The villain opens the secret vault, then snatches the emerald crown.
12. The villain paddles the fast river, then takes the jade beetle.

Answer Key

The Mystery of the Lost Temple Key

Culprit: Cleo

Grappling Hook · Pet Monkey · Left-handed notepad · Blonde Ponytail · Scared of bright lights

Trail: Start 21 → Clue 1 18 → Clue 2 9 → Clue 3 5 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE SNEAKY THIEF DOES NOT HAVE A PET FERRET"

$3 \times 9 = 27$ (T) · $11 \times 4 = 44$ (P) · $12 \times 8 = 96$ (R) · $10 \times 7 = 70$ (D) · $1 \times 11 = 11$ (N) · $11 \times 5 = 55$ (H) · $6 \times 10 = 60$ (S) · $8 \times 6 = 48$ (K) · $10 \times 3 = 30$ (O) · $10 \times 11 = 110$ (A) · $8 \times 8 = 64$ (F) · $11 \times 11 = 121$ (I) · $8 \times 9 = 72$ (V) · $2 \times 7 = 14$ (Y) · $9 \times 12 = 108$ (E)

Clue 2 (Word problems): "LEFT HANDED NOTEPAD"

Explorer Jack lined up 8 rows of 4 flashlights. How many flashlights in all? = 32 (L) · Explorer Jack found 14 canteens yesterday and 25 more today. How many canteens in all? = 39 (A) · Explorer Jack found 10 canteens yesterday and 4 more today. How many canteens in all? = 14 (E) · There were 13 ropes. 3 were used up. How many ropes are left? = 10 (F) · Explorer Jack found 17 canteens yesterday and 17 more today. How many canteens in all? = 34 (T) · Explorer Jack lined up 6 rows of 3 gold coins. How many gold coins in all? = 18 (N) · Explorer Jack found 14 gold coins yesterday and 9 more today. How many gold coins in all? = 23 (H)

Clue 3 (Skip counting): "THEY RAN AWAY FROM BRIGHT FLASHLIGHTS"

Skip-count by 3s. Fill the blank: 3, 6, __, 12, 15 = 9 (T) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, __, 18, 21 = 15 (G) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, __, 27, 30 = 24 (N) · 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 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, __, 36, 39 = 33 (B) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, __, 150, 160 = 140 (L) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, __, 16, 18 = 14 (H) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, __, 45, 48 = 42 (E) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, 50, __, 70, 80 = 60 (M) · Skip-count by 2s. Fill the blank: 2, 4, __, 8, 10 = 6 (Y) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, __, 24, 27 = 21 (A) · Skip-count by 2s. Fill the blank: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, __, 30, 32 = 28 (S) · Skip-count by 10s. Fill the blank: 10, 20, 30, 40, __, 60, 70 = 50 (O) · Skip-count by 3s. Fill the blank: 3, 6, 9, __, 15, 18 = 12 (W) · Skip-count by 5s. Fill the blank: 5, 10, 15, 20, 25, 30, 35, 40, __, 50, 55 = 45 (I) · Skip-count by 3s. Fill the blank: 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, __, 42, 45 = 39 (R)

Clue 4 (Place value): "BLONDE HAIR STRANDS ON THE ROPE"

What number has 5 tens and 6 ones? = 56 (B) · What number has 7 tens and 2 ones? = 72 (A) · What number has 4 tens and 8 ones? = 48 (D) · What number has 3 tens and 2 ones? = 32 (S) · What number has 1 ten and 6 ones? = 16 (L) · What number has 6 tens and 6 ones? = 66 (I) · What number has 6 tens and 4 ones? = 64 (E) · What number has 7 tens and 7 ones? = 77 (H) · What number has 1 ten and 5 ones? = 15 (T) · What number has 2 tens and 8 ones? = 28 (R) · What number has 3 tens and 8 ones? = 38 (P) · What number has 6 tens and 8 ones? = 68 (N) · What number has 8 tens and 5 ones? = 85 (O)

Clue 5 (Missing addends): surviving statement is box 6 → Cleo

$1 + \underline{\quad} = 6 = 5$ · $5 + \underline{\quad} = 16 = 11$ · $5 + \underline{\quad} = 15 = 10$ · $7 + \underline{\quad} = 8 = 1$ · $5 + \underline{\quad} = 12 = 7$ · $5 + \underline{\quad} = 9 = 4$ · $6 + \underline{\quad} = 14 = 8$ · $7 + \underline{\quad} = 9 = 2$ · $5 + \underline{\quad} = 14 = 9$ · $4 + \underline{\quad} = 7 = 3$ · $6 + \underline{\quad} = 18 = 12$