



The Case of the Missing Jade Monkey

Grade 4 math · Multiplication, Fractions of a number, Multi-step word problems, Word problems, Division · Reading level grades 5-6

Detective: _____ Date: _____

The sacred Jade Monkey has been stolen from the golden pedestal in the temple! Chief Archaeologist Dr. Jones was left tied up in vine ropes. We must search the base camp and decode the clues to find out which rogue explorer 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 Rogue Explorer is _____

Possible suspects

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

NAME	PRIMARY GEAR	SPECIAL SKILL	WRITING HAND	HAT STYLE	FEARED TRAP
Chloe Frazer	grappling hook	vine swinging	right handed	feathered fedora	falling nets
Sacagawea	heavy machete	map decoding	right handed	feathered fedora	poison darts
Indiana Jones	golden compass	map decoding	left handed	safari helmet	falling nets
Evelyn Carnahan	golden compass	animal mimicking	right handed	safari helmet	poison darts
Steve Irwin	pocket lantern	animal mimicking	right handed	crimson bandana	falling nets
Percy Fawcett	brass spyglass	animal mimicking	right handed	safari helmet	poison darts
Mary Anning	brass spyglass	map decoding	right handed	safari helmet	rolling boulders
Clara Oswald	brass spyglass	trap disarming	right handed	crimson bandana	rolling boulders
Benjamin Gates	golden compass	vine swinging	right handed	feathered fedora	falling nets
Roy Chapman	grappling hook	trap disarming	left handed	crimson bandana	poison darts
Allan Quatermain	golden compass	trap disarming	right handed	safari helmet	falling nets
Jacques Cousteau	grappling hook	vine swinging	right handed	feathered fedora	rolling boulders
Sully Sullivan	golden compass	vine swinging	right handed	crimson bandana	rolling boulders
Elena Fisher	heavy machete	trap disarming	left handed	safari helmet	falling nets
River Song	golden compass	animal mimicking	right handed	safari helmet	falling nets
Lara Croft	grappling hook	ruin climbing	left handed	feathered fedora	falling nets
Nathan Drake	heavy machete	animal mimicking	right handed	safari helmet	falling nets
Nellie Bly	golden compass	map decoding	left handed	crimson bandana	falling nets
Danny Temple	pocket lantern	animal mimicking	right handed	safari helmet	falling nets
Jack Wilder	grappling hook	vine swinging	right handed	safari helmet	falling nets
Amelia Earhart	golden compass	ruin climbing	left handed	feathered fedora	poison darts

CLUE 1

Multiplication facts (1-12)

We checked the gear tents, counting several neat rows of expedition crates to verify what was stolen.

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

T																T
40	21	84	100	30	1	1	45	30	70	49	90	84	50	70	90	40

						T				
49	30	50	45	22	24	40	22	45	2	50

$8 \times 5 = \square \rightarrow \text{T}$

$9 \times 5 = \square \rightarrow \text{A}$

$2 \times 11 = \square \rightarrow \text{R}$

$10 \times 10 = \square \rightarrow \text{V}$

$3 \times 8 = \square \rightarrow \text{M}$

$10 \times 7 = \square \rightarrow \text{N}$

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

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

$10 \times 9 = \square \rightarrow \text{O}$

$2 \times 1 = \square \rightarrow \text{P}$

$12 \times 7 = \square \rightarrow \text{E}$

$6 \times 5 = \square \rightarrow \text{I}$

$1 \times 1 = \square \rightarrow \text{L}$

$5 \times 10 = \square \rightarrow \text{S}$

Scratch space:

CLUE 2 Fractions of a number

Our guide found a torn journal page, but we could only read a fraction of the muddy lines.

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

Diagram showing two rows of 15 empty boxes each. The top row has a red 'T' in the first box, and the bottom row has red 'T's in the fourth and fifth boxes. Numbers are placed below the boxes, indicating the value of the 'T' in that position.

Row	Box 1	Box 2	Box 3	Box 4	Box 5	Box 6	Box 7	Box 8	Box 9	Box 10	Box 11	Box 12	Box 13	Box 14	Box 15
Top	T														
Bottom				T	T										

Numbers below the boxes (Top row): 40, 33, 7, 13, 29, 38, 32, 3, 18, 7, 16, 34, 5, 40, 7, 3, 32, 13.

Numbers below the boxes (Bottom row): 3, 38, 28, 40, 40, 7, 34, 38, 28, 39, 33, 40, 33, 32, 34, 16, 7, 16.

4/10 of 100 = → **T**

7/10 of 10 = → **E**

$7/8$ of 32 = $\rightarrow$

$\frac{1}{2}$ of 10 = $\rightarrow$ **0**

$2/4$ of 64 = $\rightarrow$ **A**

$2/4$ of 68 = $\rightarrow$ **N**

$2/6$ of $87 = \boxed{} \rightarrow \boxed{\text{C}}$

$$1/10 \text{ of } 180 = \boxed{} \rightarrow \boxed{\text{L}}$$

2/8 of 156 = → **G**

$$4/6 \text{ of } 57 = \boxed{} \rightarrow \boxed{\text{R}}$$

$$2/6 \text{ of } 99 = \boxed{} \rightarrow \boxed{\text{H}}$$

$1/10$ of 30 = $\rightarrow$ **W**

$$1/5 \text{ of } 80 = \boxed{} \rightarrow \boxed{\text{D}}$$

$$\frac{1}{5} \text{ of } 65 = \boxed{} \rightarrow \boxed{\text{S}}$$

Scratch space:

CLUE 3

Multi-step word problems

To reach the inner chamber, we had to carefully calculate each step forward and backward to avoid the floor plates.

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

Someone scared the villain off with F T S .

37 44 72 72 25 6 32 6 11

There were 364 brass compasses in all. 31 brass compasses were set aside. The rest were shared equally among 9 Pathfinders. How many brass compasses did each get?

Answer: → F

Explorer collected 8 ancient coins in the morning and 4 ancient coins in the afternoon, then split them equally among 2 Pathfinders. How many ancient coins did each get?

Answer: → N

Explorer filled 4 boxes with 4 stone idols each, then found 28 more stone idols. How many stone idols are there in all?

Answer: → A

Explorer earned 3 climbing ropes in each of 3 rounds, plus 12 bonus climbing ropes. Then 10 climbing ropes were lost. How many climbing ropes are left?

Answer: → E

Explorer filled 6 boxes with 4 ancient coins each, then found 48 more ancient coins. How many ancient coins are there in all?

Answer: → L

Explorer earned 5 ancient coins in each of 4 rounds, plus 12 bonus ancient coins. Then 7 ancient coins were lost. How many ancient coins are left?

Answer: → I

Explorer earned 7 map scrolls in each of 3 rounds, plus 16 bonus map scrolls. Then 5 map scrolls were lost. How many map scrolls are left?

Answer: → G

Scratch space:

CLUE 4

Word problems

We encountered a heavy stone door that would only open if we placed the correct weight on the pedestal.

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

A strand of S L M T hair turned up at the scene.

76 65 52 65 38 72 60 34 34

There were 91 climbing ropes. 15 were used up. How many climbing ropes are left?

Answer: → S

Explorer found 60 ancient coins yesterday and 5 more today. How many ancient coins in all?

Answer: → A

Explorer found 5 climbing ropes yesterday and 47 more today. How many climbing ropes in all?

Answer: → F

Explorer found 8 brass compasses yesterday and 26 more today. How many brass compasses in all?

Answer: → E

Explorer lined up 6 rows of 10 ancient coins. How many ancient coins in all?

Answer: → H

There were 104 climbing ropes. 32 were used up. How many climbing ropes are left?

Answer: → I

Explorer found 2 stone idols yesterday and 36 more today. How many stone idols in all?

Answer: → R

Scratch space:

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

Before heading into the dark ravine, we divided our remaining torches equally among the search teams.

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:

$7 \div 1 = \boxed{}$

$54 \div 6 = \boxed{}$

$50 \div 5 = \boxed{}$

$96 \div 12 = \boxed{}$

$30 \div 6 = \boxed{}$

$9 \div 9 = \boxed{}$

$14 \div 7 = \boxed{}$

$66 \div 6 = \boxed{}$

$144 \div 12 = \boxed{}$

$18 \div 6 = \boxed{}$

$12 \div 2 = \boxed{}$

Step 2 - cross out the sentence with each answer:

1. The villain lit the dark stone hallway with a pocket lantern, then sneaked past by trap disarming.
2. The villain checked their bearings with a golden compass, then paused for map decoding.
3. The villain lit the dark stone hallway with a pocket lantern, then paused for map decoding.
4. The villain lit the dark stone hallway with a pocket lantern, then distracted the guards by animal mimicking.
5. The villain slashed through the thick brush with a heavy machete, then sneaked past by trap disarming.
6. The villain slashed through the thick brush with a heavy machete, then paused for map decoding.
7. The villain slashed through the thick brush with a heavy machete, then distracted the guards by animal mimicking.
8. The villain scanned the horizon with a brass spyglass, then scaled the wall by ruin climbing.
9. The villain swung across the chasm with a grappling hook, then escaped by vine swinging.
10. The villain checked their bearings with a golden compass, then distracted the guards by animal mimicking.
11. The villain checked their bearings with a golden compass, then sneaked past by trap disarming.
12. The villain scanned the horizon with a brass spyglass, then paused for map decoding.

Answer Key

The Case of the Missing Jade Monkey

Culprit: Danny Temple

pocket lantern · animal mimicking · right handed · safari helmet · falling nets

Trail: Start 21 → Clue 1 17 → Clue 2 13 → Clue 3 7 → Clue 4 4 → Clue 5 1

Clue 1 (Multiplication facts (1-12)): "THE VILLAIN DOES NOT DISARM TRAPS"

$8 \times 5 = 40$ (T) · $9 \times 5 = 45$ (A) · $2 \times 11 = 22$ (R) · $10 \times 10 = 100$ (V) · $3 \times 8 = 24$ (M) · $10 \times 7 = 70$ (N) · $7 \times 7 = 49$ (D) · $3 \times 7 = 21$ (H) · $10 \times 9 = 90$ (O) · $2 \times 1 = 2$ (P) · $12 \times 7 = 84$ (E) · $6 \times 5 = 30$ (I) · $1 \times 1 = 1$ (L) · $5 \times 10 = 50$ (S)

Clue 2 (Fractions of a number): "THE SCRAWLED NOTE WAS WRITTEN RIGHT HANDED"

$4/10$ of 100 = 40 (T) · $7/10$ of 10 = 7 (E) · $7/8$ of 32 = 28 (I) · $1/2$ of 10 = 5 (O) · $2/4$ of 64 = 32 (A) · $2/4$ of 68 = 34 (N) · $2/6$ of 87 = 29 (C) · $1/10$ of 180 = 18 (L) · $2/8$ of 156 = 39 (G) · $4/6$ of 57 = 38 (R) · $2/6$ of 99 = 33 (H) · $1/10$ of 30 = 3 (W) · $1/5$ of 80 = 16 (D) · $1/5$ of 65 = 13 (S)

Clue 3 (Multi-step word problems): "FALLING NETS"

There were 364 brass compasses in all. 31 brass compasses were set aside. The rest were shared equally among 9 Pathfinders. How many brass compasses did each get? = 37 (F) · Explorer collected 8 ancient coins in the morning and 4 ancient coins in the afternoon, then split them equally among 2 Pathfinders. How many ancient coins did each get? = 6 (N) · Explorer filled 4 boxes with 4 stone idols each, then found 28 more stone idols. How many stone idols are there in all? = 44 (A) · Explorer earned 3 climbing ropes in each of 3 rounds, plus 12 bonus climbing ropes. Then 10 climbing ropes were lost. How many climbing ropes are left? = 11 (E) · Explorer filled 6 boxes with 4 ancient coins each, then found 48 more ancient coins. How many ancient coins are there in all? = 72 (L) · Explorer earned 5 ancient coins in each of 4 rounds, plus 12 bonus ancient coins. Then 7 ancient coins were lost. How many ancient coins are left? = 25 (I) · Explorer earned 7 map scrolls in each of 3 rounds, plus 16 bonus map scrolls. Then 5 map scrolls were lost. How many map scrolls are left? = 32 (G)

Clue 4 (Word problems): "SAFARI HELMET"

There were 91 climbing ropes. 15 were used up. How many climbing ropes are left? = 76 (S) · Explorer found 60 ancient coins yesterday and 5 more today. How many ancient coins in all? = 65 (A) · Explorer found 5 climbing ropes yesterday and 47 more today. How many climbing ropes in all? = 52 (F) · Explorer found 8 brass compasses yesterday and 26 more today. How many brass compasses in all? = 34 (E) · Explorer lined up 6 rows of 10 ancient coins. How many ancient coins in all? = 60 (H) · There were 104 climbing ropes. 32 were used up. How many climbing ropes are left? = 72 (I) · Explorer found 2 stone idols yesterday and 36 more today. How many stone idols in all? = 38 (R)

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

$7 \div 1 = 7$ · $54 \div 6 = 9$ · $50 \div 5 = 10$ · $96 \div 12 = 8$ · $30 \div 6 = 5$ · $9 \div 9 = 1$ · $14 \div 7 = 2$ · $66 \div 6 = 11$ · $144 \div 12 = 12$ · $18 \div 6 = 3$ · $12 \div 2 = 6$